

# THE ARCHITECT & BUILDING NEWS

5 MAY 1955

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• ONE SHILLING WEEKLY

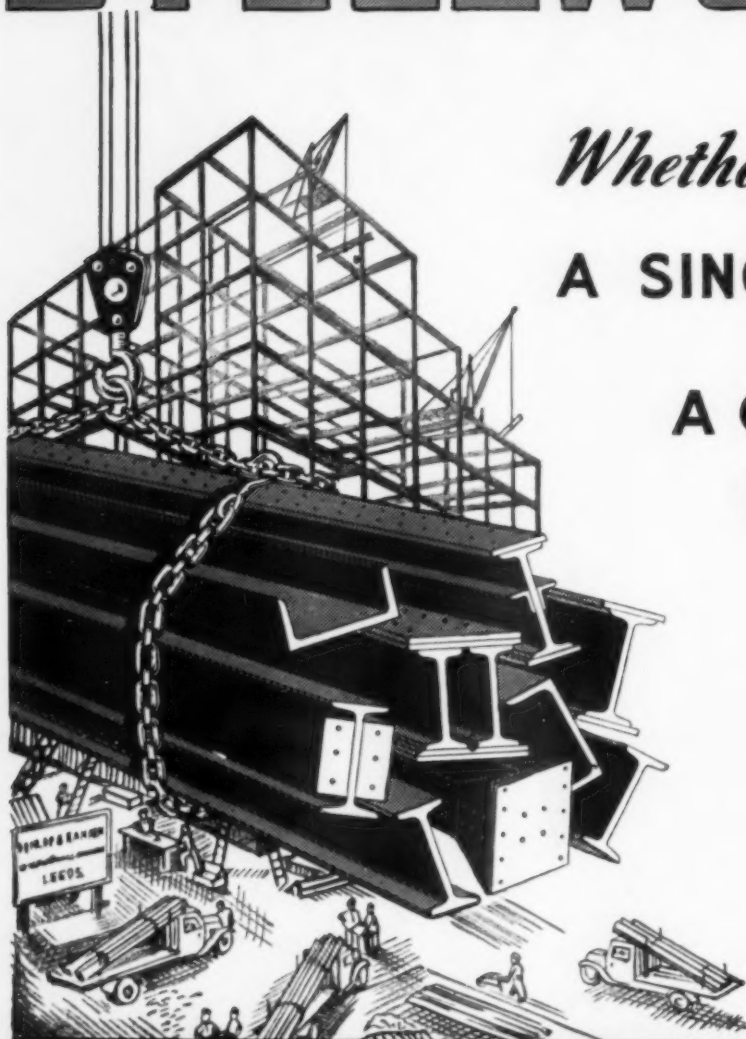
• ROYAL ACADEMY: I

• DOLCIS SHOP, COVENTRY

• INFORMATION DIGEST

PUBLISHED IN LONDON SINCE 1854

# STEELWORK



*Whether you want*  
**A SINGLE JOIST  
 OR  
 A COMPLETE  
 BUILDING**

*Try*  
**D & R**  
 STEELWORK  
 SERVICE

## DUNLOP & RANKEN

CONSTRUCTIONAL ENGINEERS LTD  
 IRON & STEEL STOCKHOLDERS

### LEEDS

TELEPHONE  
 27301 (20 LINES)

TELEGRAMS  
 "SECTIONS LEEDS"



**"My husband is  
married to  
a metal window"**

Says Mrs. Scott ruefully. "Twenty-five years," adds Mr. Scott with a twinkle in his eye, "and it doesn't seem a day too much." He has worked his way up the industry from drawing office in his youth to chief draughtsman and hence to production and sales. Now his South London area keeps him and his service team of representatives, draughtsmen, estimators and window fixers more than busy. But somehow he still finds time to do a spot of gardening and take a keen interest in the Scout movement. Amazing.

**\*MR. A. M. SCOTT, WILLIAMS & WILLIAMS LIMITED**  
81A High Street, Bromley, Kent • Ravensbourne 6274

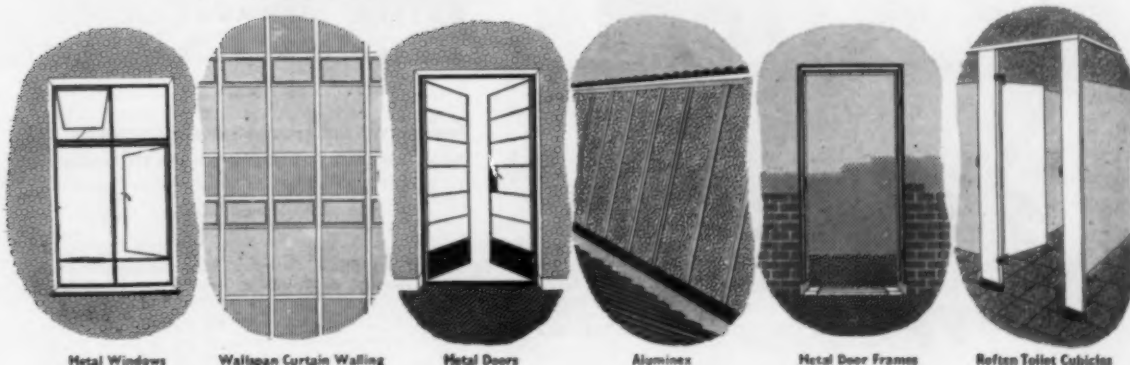
*Other offices at: Belfast (23762). Birmingham (Shirley 3064). Bristol (38907). Cardiff (27092). Crawley (2200). Glasgow (Douglas 0003). Hertford (3969). Leeds (21208). Liverpool (Central 0325). London (Sloane 0323). Maidstone (51750). Manchester (Blackfriars 9591). Newcastle-upon-Tyne (21353). Norwich (24393). Nottingham (52131). Reading (50291). Sheffield (51594). Southampton (26252).*

**METAL WINDOWS**

**WILLIAMS & WILLIAMS**



*Member of the Metal Window Association*



Metal Windows

Wallspan Curtain Walling

Metal Doors

Aluminium

Metal Door Frames

Roften Toilet Cubicles

# Waterproofing?



## This is what I did

You know yourself you can run into endless trouble unless the job's properly watertight.

*I know, I've had some in the past. Put my schedule weeks behind.*

Me too. Well I'd heard quite a lot about these Dussek products but as far as I could see they were no worse nor better than any of the others. Anyhow Tommy Johnson swore by them and he's doing pretty well, so I thought I'd have a look at them.

*And are they as good as Tommy says?*

Well from what I've seen up to now—yes. But what I liked was the way they help you. If you've got a particularly knotty problem they'll be only too glad to give you their ideas—and they've got plenty. Why—they've got something to proof everywhere you want from ridges down to the damp-course.

*And have you used any of them?*

Yes—I've put some of their "Bitite" on the ridges and gutters—it's easy enough to put on anyway—just with a trowel as it comes out of the drum.

*Well I'll be seeing you again, you can let me know if it works.*

I will—and from what I've seen I'm pretty confident it will. Drop them a line yourself and ask for their leaflets. They're well worth looking at. Cheerio Bill—must get on!

**DUSSEK BITUMEN  
& TAROLEUM LTD.**



EMPRESS WHARF, BROMLEY-BY-BOW, LONDON, E.3.  
Telephone: ADVance 4127. Telegrams: Trinidize, Bochurch London.

Warrington: Loushers Lane, Wilderspool. Glasgow: Barrhead South Goods Station. Cardiff: 18 Park Grove. Branches, Associated Companies and Agents in: Australia, Belgium, British East Africa, Denmark, Malta G.C., New Zealand, Norway, South Africa, Sweden and West Africa.





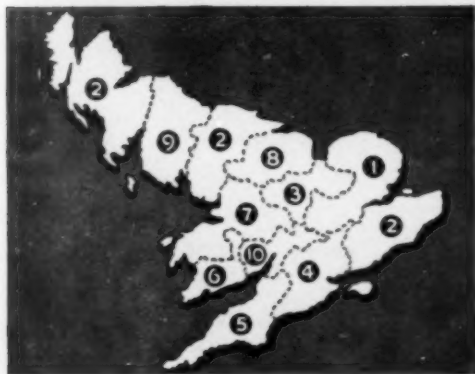
a  
nation-wide  
service by



*these buildings were erected in  
a few days . . . from stock!*

The Unimer Organisation for the supply and service of Unimer tubular steel building components covers the whole nation through 10 Area Distributors. Because of the standardization of dimensions and components, each Distributor carries complete stocks, with buildings "on the shelf" ready for immediate delivery. So through the Unimer organisation, any size of building can be erected anywhere in a matter of days. Unimer components are adaptable to a variety of buildings for factories, offices, workshops, garages, agricultural buildings, etc. and are permanent structures which can be enlarged at any time by the addition of identical units.

*Unimer Components are  
stocked by 10 Area Distributors*



**UNITED MERCHANTS LTD.,** Walter House,  
418/422 Strand, London, W.C.2

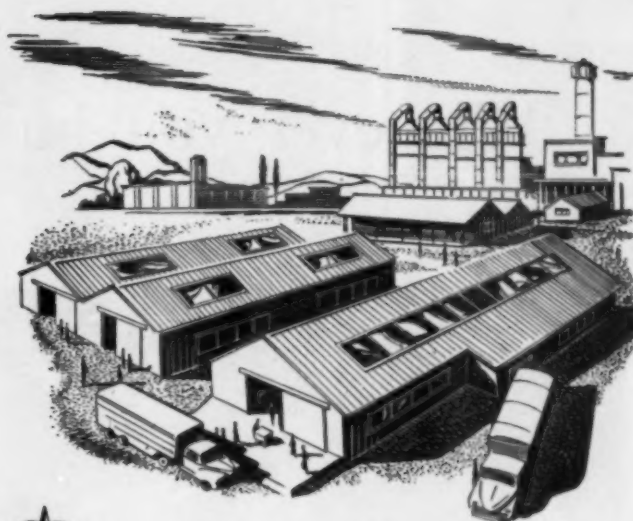
- ☐ Send name of my nearest Unimer distributor  
☐ Send information about Unimer buildings for use as

Name .....

Firm .....

Address .....

County .....



### COMPONENTS

The Unimer building consists of tubular steel trusses, purlins and sheeting rails, used in conjunction with tubular steel columns, in a wide range of spans and heights.



### ACCESSORIES

The Unimer building can be clad with a variety of materials including Asbestos Sheets, etc. and can incorporate dwarf walls of brick or concrete blocks. Either roof or side lighting may be used.



### ADVANTAGES

Tube is considerably stronger weight for weight, than sectional steel. Thus the Unimer building, whilst it is as strong, is lighter than a sectional steel building, so the saving in cost of steel, cartage, erection and foundations, make the Unimer building the fastest and most economical method of modern building.

# UNITED MERCHANTS LIMITED

WALTER HOUSE, 418/422 STRAND, LONDON, W.C.2

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Belvedere Works,  
Barking, Essex.  
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Wood St., Northampton.  
Phone: Northampton 1488  
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4 WM. DIBBEN & SONS  
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Phone: Southampton 21271  
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ING CO. LTD., Queen  
St. Station Yard, Exeter.  
Phone: Exeter 3042 (3 lines)

6 THE SOUTH WALES  
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CO. LTD., Wind Street,  
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8 BUXTON DAWSON  
LTD., 206/208 London  
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9 NORTHERN TUBULAR  
BUILDINGS LTD.  
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Newcastle on Tyne.  
Phone: Newcastle on Tyne 34011  
(10 lines)

10 THE IRON & MARBLE COMPANY LIMITED, 33/35 Victoria Street, Bristol  
Phone: Bristol 27471 (10 lines)

# Whatever you build . . .



Photograph by T. E. ALLBEURY

## BUILDING IS A UNIVERSAL ACTIVITY

There is an insatiable demand for our products, so we are building too . . .  
more kilns producing more and more bricks and blocks carried direct to  
your sites through highly organised distribution by road, rail and water.



PHOSPHOR

### LONDON BRICK COMPANY LIMITED

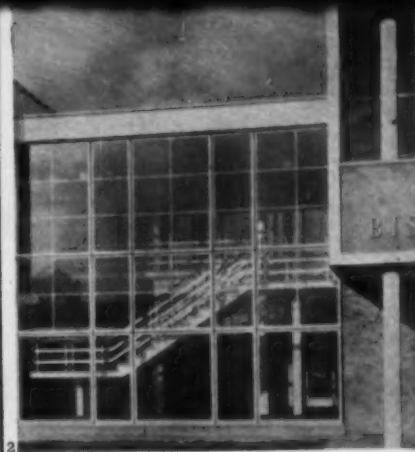
Head Office: AFRICA HOUSE, KINGSWAY, LONDON, W.C.2  
Telephone: Holborn 8282. Midland District Office: Prudential Buildings, St. Philip's Place, Birmingham, 3  
Telephone: Colmore 4141. South Western District Office: 11 Orchard Street, Bristol, 1. Telephone: Bristol 23004/5  
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BY APPOINTMENT  
BRICKMAKERS TO  
THE LATE  
KING GEORGE VI

# M

**MORRIS**



# S

**SINGER**



# M

**METALWORK**

1 David Greig Sign. Architects: Robert Paine & Partners, A.R.I.B.A.

2 & 3 Bishop Ward School. Architects: Messrs. Sterrett & Ilouet, A/A.R.I.B.A.

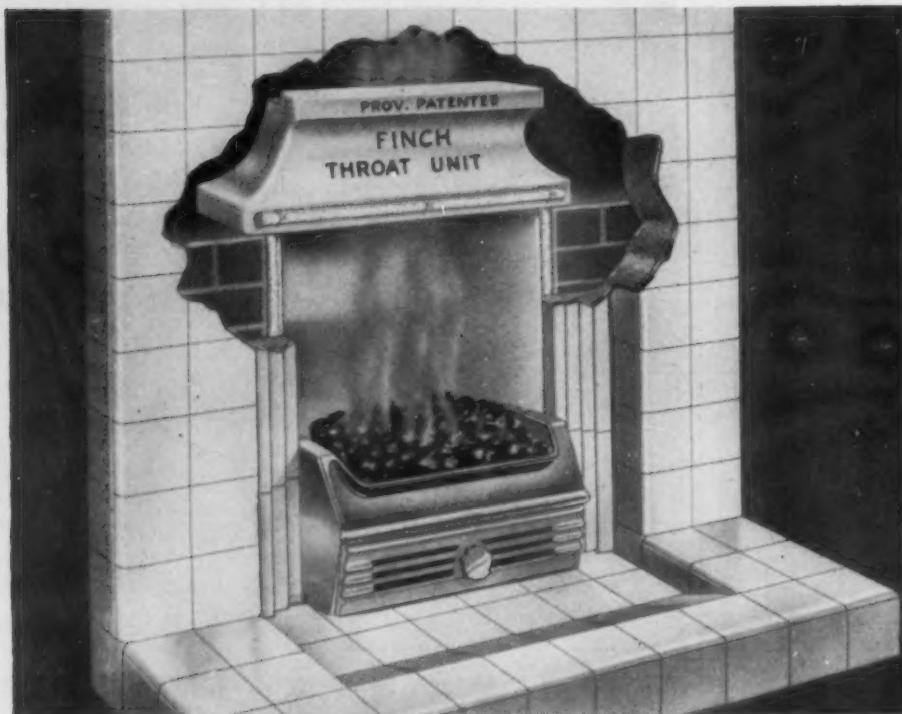
4 & 5 Pearl Assurance House, Canterbury. Architects: Messrs. Ernest Bates & Wm. G. Sinning, F/A.R.I.B.A.

6 Swimming Pool Metalwork 'S.S. Arcadia'. Architects: Messrs. A. McInnes, Gardner & Partners.

THE MORRIS SINGER COMPANY LTD · FERRY LANE WORKS, FOREST ROAD, WALTHAMSTOW E.17 · Tel: LARKSWOOD 1066

IMPROVED MODERN HEATING APPLIANCES DESERVE BETTER FLUES

Better flues are achieved with the



# Finch Throat Unit

Faulty design at the entrance to the flue can waste heat, cause smoky fires and damage to surrounds. The Finch Throat Unit overcomes these problems by providing a smooth, streamlined union between the fire and flue. In this way, the smoke column is given extra velocity, down draughts are reduced and a protective insulating void is provided between the throat and the surround.

The restriction provided by the unit reduces excessive ventilation in the room. Recent practical tests have proved that the installation of the Throat Unit actually gives a room-heat conservation figure of 17% plus, over and above the saving made by the modern appliance.

These very practical advantages make the Finch Throat Unit an essential part of every fireplace installation.

# THE *Finch* ORGANIZATION

Head Office & Works:

**BELVEDERE WORKS, BARKINGSIDE, ESSEX** VAlentine 8888 (30 lines)

Showrooms:

**FINCH CORNER, 679/687 EASTERN AVENUE, ILFORD, ESSEX**

A comprehensive work on flue design entitled "The Finch Chimney Throat Unit" is available free on request.



**NOW!**  
**CELOTEX**  
REGD TRADE MARK

**FIVE-  
STAR**

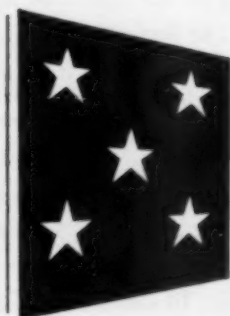
**HARDBOARD**

- ★ EXCEPTIONAL STRENGTH
- ★ LARGE SIZED SHEETS FOR ECONOMY
- ★ ATTRACTIVE, RICH BROWN COLOUR
- ★ IDEAL FOR ALL APPLIED FINISHES
- ★ EASILY, QUICKLY HANDLED & FIXED

*for quicker and more economical results*

Every sheet of Celotex Five-Star Hardboard is ready for instant use *and* it can be used right up to the last piece. It is grainless, so that you are never troubled by knot-holes *and* it will not crack, split or splinter. It can be cut, nailed, bevelled and shaped with ordinary wood-working tools. You will find it cheaper, quicker and more reliable than wood for innumerable household jobs. Your results will be just that much better if you use Celotex Five-Star Hardboard! Send today for further details, samples and the name and address of your nearest Celotex distributor.

**CELOTEX**  
REGD TRADE MARK  
**FIVE-STAR**



**HARDBOARD**

Made in Great Britain with all-British materials by  
Celotex Limited, North Circular Road, Stonebridge Park, London, N.W.10.

Telephone: ELGar 5717 (10 lines)



# You get 34.4% more light

## With Venetian Blinds of *Luxaflex*



**Bare window wastes light.... leaves far side dark**



**LUXAFLEX blind spreads light to far side of room**

An exhaustive study by the Faber Birren Company\* shows: A bare window gives extreme glare on one side of the room, insufficient light on the other. The Luxaflex Blind, by reflection, *spreads* the high-intensity sunlight at the window throughout the room - giving more illumination with less glare. The brightness ratio, which was 14 to 1 with the bare window, is now reduced to a comfortable 4 to 1.

Only LUXAFLEX blind-materials give these maintenance and durability advantages:



#### Easy cleaning

A damp cloth wipes away even the most stubborn stains from LUXAFLEX aluminium slats and vinyl plastic tapes. The tapes always keep their freshness - never stretch, shrink or discolour.



#### Snap-back aluminium slats

Now available in 14 beautiful pastel colours. Dura-tized to snap back ruler-straight, even when bent to a 90° angle. Baked-on finish can't rust, chip, crack or discolour.



**Look for this mark**  
Be sure the blinds you specify carry the Luxaflex "visible-invisible" trade-mark on the slats. It's your guarantee of unrivalled quality.

Write for additional information and the name and address of a venetian blind manufacturer using Luxaflex slats and tapes to  
**HUNTER DOUGLAS (GREAT BRITAIN) LTD., 10 DRAKE STREET, RED LION SQUARE, LONDON W.C. 1**

Tel.: CHAncery 8634

\* This study was made at the request of Hunter Douglas Corporation, New York, U.S.A. Copies available on request.

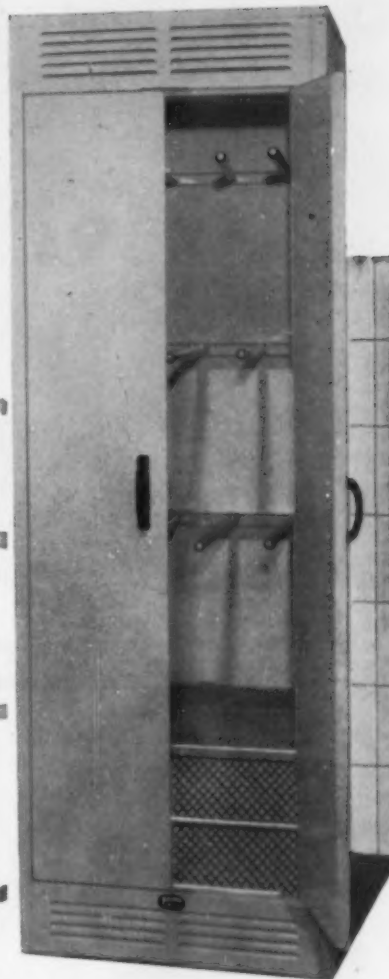
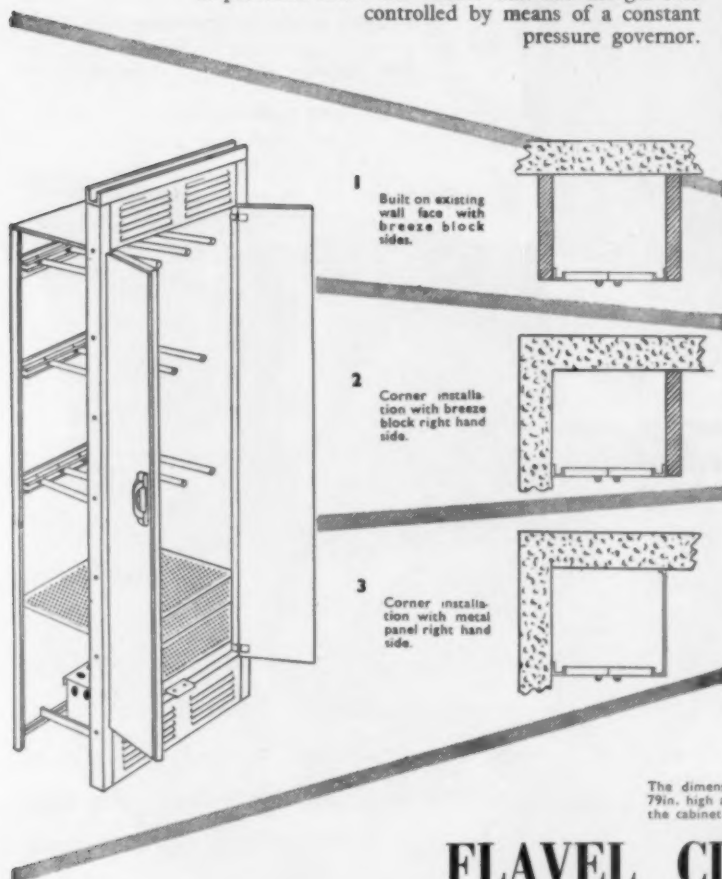
# Built-in..

## or free standing

The Flavel Clothes Dryer is constructed in order that this may be supplied as a complete unit, or alternatively for building into a recess or corner, by utilizing the main frame assembly and component parts.

The cabinet is strongly constructed of Zintec sheet steel and is finished in cream stove-enamelled paint, fitted with double doors and heated by means of a gas burner unit in the base.

The dryer is large enough to contain an average weekly wash hanging on eleven tubular Bakelite rails at three different heights. A guard is provided above the burner unit and the gas rate controlled by means of a constant pressure governor.



The dimensions of the Free Standing model are 79in. high and 24in. deep, and the width inside the cabinet is 23½in.

## FLAVEL CLOTHES DRYER

(GAS HEATED)

*provides perfect drying conditions  
every washday!*

**FLAVELS**  
of LEAMINGTON



Makers of fine cooking and heating appliances since 1777

Telephones : LEAMINGTON 100 (Head Office) 3091/2 (Sales) Telegrams : FLAVELS.

**FLYOVER DOORS****NEVER LOSE  
THEIR BALANCE**

Nothing is more certain to make you hopping mad than a garage door that drops unexpectedly on your foot. **THIS CANNOT HAPPEN WITH FLYOVER DOORS.** The gear has been carefully designed to ensure that every FLYOVER door remains in perfect balance in any partly open position.

**EXISTING DOORS CAN BE CONVERTED**

The operating arms and springs of FLYOVER gear are fitted to the door frames, leaving every inch of wall space clear and unobstructed. No additional headroom is required to take the door. With a set of FLYOVER gear, and our illustrated instructions, ordinary swing doors can be quickly converted to the FLYOVER type. As the foremost manufacturers we have a range of gear for every door that slides.

**HILLALDAM****FOR EVERY DOOR THAT SLIDES**

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**E. HILL ALDAM & CO. LIMITED**

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THE BRITANNIA WORKS, HASLEMERE AVENUE, LONDON, S.W.18

Telephone: WIMbledon 8080 (5 lines)

Telegrams: "Aldamillo" Put. London.

## Light to be good must be tamed

Good lighting in a factory pays handsome dividends in better work and higher morale. But natural light needs controlling; irritating glare and hampering shadows must be done away with.

These illustrations show three methods of Orlit roofing, each suitable for particular lighting conditions.

Roofing however is only one aspect of the Orlit System. Complete factories, single or multi-storey, of practically any design can be erected by Orlit—with the economies, in time and direct cost, which result from the factory production of basic structural units.

*The Orlit Technical Folder, illustrating various types of buildings, will be sent on request.*



*Above* MONITOR ROOF CONSTRUCTION  
Food Depot at Fulham for Messrs. Alfred Button  
& Sons Ltd.  
Architects: Messrs. E. Norman Bailey & Partners.



*Left* PITCHED ROOF SHEDDING CON-  
STRUCTION Factory Extension for Telehoist  
Works, Cheltenham.

*Below* NORTH LIGHT ROOF CONSTRU-  
TION For International Aeradio Limited.  
Architects: Messrs. Dodge & Reid.



**ORLIT** SYSTEM  
OF REINFORCED CONCRETE

**Area Licensees:**

TARSLAG LTD. Tees Bridge, Stockton-on-Tees. Tel: 6355

ORLIT (Lancs.) LTD. 3 Brown St. Manchester Tel: Blackfriars 0719

THE SCOTTISH CONSTRUCTION CO. LTD. Sighthill Industrial Estate, Edinburgh 2. Tel: Craiglockhart 2287

ORLIT LTD · COLNBROOK BY-PASS · COLNBROOK · SLOUGH · BUCKS. Tel: Colnbrook 351

HCN 110





INTRODUCING THE NEW

atlas

**ASBESTOS CEMENT**  
**"major six"**  
**CORRUGATED SHEETS**

Setting a new high standard in roofing materials,  
 MAJOR SIX Sheeting provides increased  
 covering capacity and incorporates an improved side lap.  
 MAJOR SIX does not warp or crack—dependable protection  
 ensured in varying climatic conditions.

*We would like to send you detailed technical literature and full information. Will you 'phone or write today?*



**ARTILLERY HOUSE,  
 ARTILLERY ROW, S.W.1**

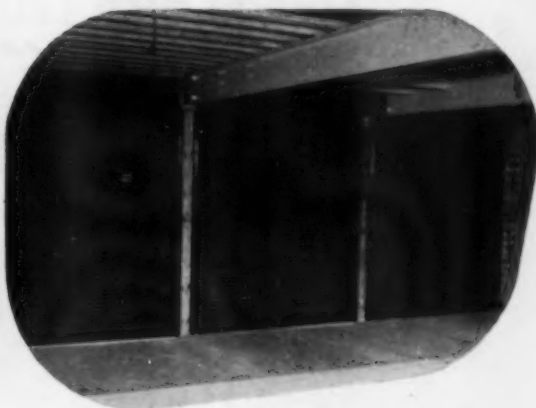
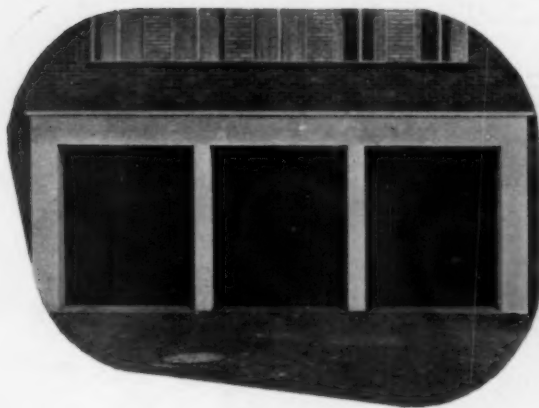
Telephone : ABBey 3081-2-3-4.

Telegrams: London Office: "Atlastonco Sowest."

Works at MELDRETH · GREENHITHE · STROOD · CAMBRIDGE · PARK ROYAL (LONDON) · SHORNE · WING · RYE (SUSSEX)



## ADAM SHUTTER INSTALLATION



STEEL ● ALUMINIUM ● SOFT & HARD WOOD

*Hand operated by long arm. Hand operated by chain and gearing  
or motorised*

*An efficient service in design, manufacture, fixing and maintenance.*

### ADAM LTD.

BLIND & SHUTTER DIVISION of ADAM & LANE & NEEVE LTD.

*Falcon Works, Copperfield Road, London. E.3. Tel. ADVance 2345 (6 lines)*



Our problem was to assemble heavy plant and material while our new extension was being built.

We solved it by laying the floor first—Stelcon steel-clad Rafts, the finest heavy duty floor I've struck in a lifetime of experience.

The whole operation was dead easy. We just laid a bed of sand 4" deep, evenly compacted over level topsoil; brought in our rafts and lowered them into position by mobile crane. And there was our floor, ready for immediate traffic.

Each raft weighs about one ton. It is doubly

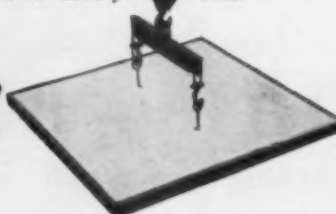
reinforced, bound with angle iron, and faced with the Stelcon steel-clad wearing surface.

We found that by laying the floor first, the remaining building work was speeded up; saving us 7% in overall cost.

What interests me, is that Stelcon Raft Floors have been in service for 18 years, without costing a penny in maintenance. That's quite a consideration.

Why don't *you* get in touch with Stelcon; ask for their illustrated booklet, it contains all the technical data.

# Stelcon



## 'RAFT' FLOORS

STELCON (INDUSTRIAL FLOORS) LTD • CLIFFORD'S INN • LONDON, E.C.4. Tel.: CHAncery 9541

## FOR CONCRETE REINFORCEMENT



FRAMEWELD in course of erection for the first block of Corby Grammar School.

Architect: A. M. Harris Esq., F.R.I.B.A.  
Architect to the Northamptonshire County Council.

Consulting Engineer: W. C. Andrews Esq., O.B.E., M.I.C.E., M.I.Struct.E.

Contractors: Messrs. Gee, Walker & Slater Ltd.

use **FRAMEWELD**  
Trade Mark Patent No. 589046  
**A REAL TIME AND MONEY SAVER**

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**AND COMPANY LIMITED**  
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THE  
**600**  
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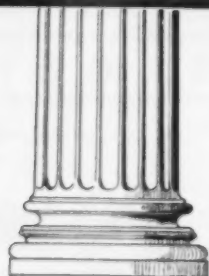
At the end of the last century, Luxfer specialised in the manufacture of all constructions through which daylight is admitted into a building, and in the middle of this century Luxfer still do.

from Corinthian to...

**contemporary**

LUXFER manufacture windows  
in Steel - Bronze - Light Alloy  
for every form of architecture.

*Illustrations :*  
*Hunstanton Secondary Modern School.*  
*Architects :*  
*Peter & Alison Smithson, A.A.R.I.B.A.*  
*Metal Windows and Doors by Luxfer.*



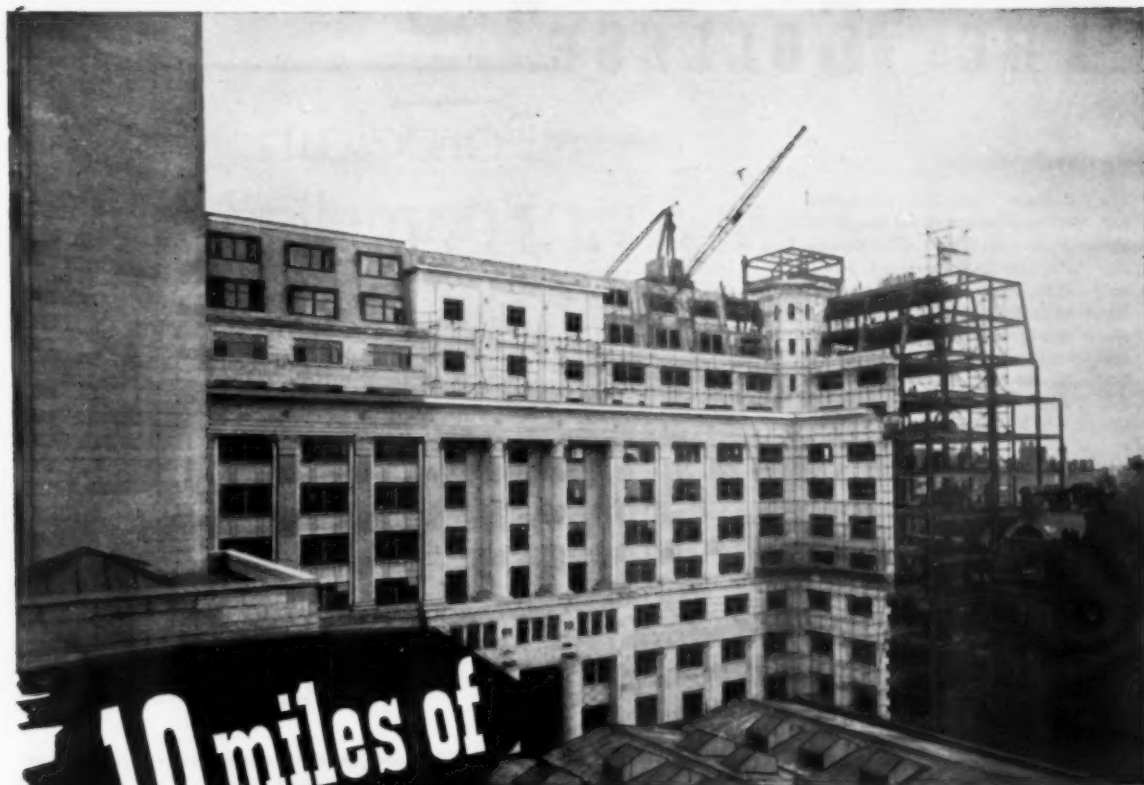
**LUXFER**  **LIMITED**

WAXLOW ROAD, HARLESDEN, LONDON, N.W.10

Telephone : ELGAR 7292

Telegrams : LUXFER, HARLES, LONDON





# **10 miles of -G.E.C. UNDER-FLOOR METAL DUCTS**

## **IN THE NEW EXCHANGE BUILDING LIVERPOOL**

This installation of the G.E.C. Under-floor metal duct system is ample proof of the success of modern electrical distribution in a modern building. Complete flexibility, mechanical strength and electrical continuity have been achieved after years of experience and collaboration with architects and contractors.

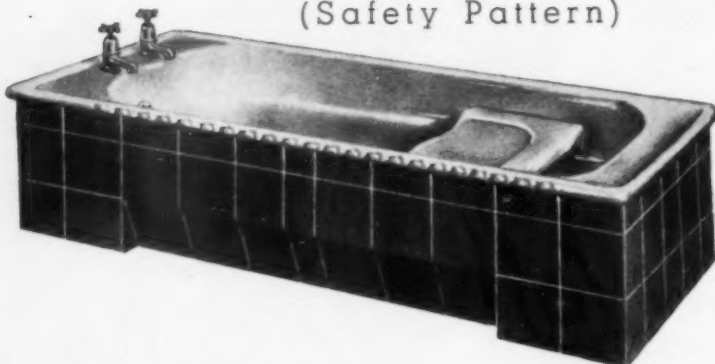


# THE "COLLEGE"

The "College" porcelain enamelled bath has been designed for Hospitals, Maternity Homes, Old People's Homes, etc. It is low to the ground, being only 15½ in. from rim to floor. Two levels of bathing are available by the use of an adjustable wooden seat. A special roll grip forms the rim of the bath. Measurements—overall length 5 ft. 6 in. × width 2 ft. 4 in.—inside length 4 ft. 10½ in. × width 2 ft. 0½ in.

Can be supplied in  
WHITE, GREEN,  
IVORY, PRIMROSE,  
BLUE, AMBER & PINK

## Porcelain Enamelled Bath (Safety Pattern)



**W. H. MICKLETHWAIT & CO., LTD.**  
CLOUGH WORKS ROTHERHAM

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**WINDSOR MOSAIC FLOOR**

PATENT NO. 544228

*at the new reduced price*

Specially suitable for Factories, Schools, Hospitals, Housing Estates, Halls, Offices, etc. We provide a specialist service for Architects and we welcome their enquiries.



AGENTS FOR "NEWHOUSE" TILES, "RAYMAR" DE LA RUE TILES

# **WILLIAM MOSS & SONS LTD**

**BUILDING AND CIVIL ENGINEERING CONTRACTORS**

**for**

**DOLCIS LTD., NEW PREMISES, COVENTRY**

**ARCHITECT**

**ELLIS E. SOMAKE, F.R.I.B.A.**

**LONDON**

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Telephone : Gladstone 8030

**LOUGHBOROUGH**

Queen's Road, Loughborough

Telephone : Loughborough 2271

**LIVERPOOL**

Roscoe Street, Liverpool

Telephone : Royal 1081

## NEW DOLCIS SHOE SHOP, COVENTRY



**ARCHITECT :** Ellis E. Somake, Esq., F.R.I.B.A., Dip. Arch. London.

**SHOPFITTERS :** Messrs. Courtney Pope Ltd., London, N.15.

'Lionide Contemporary Effects' embody the true spirit of the modern trend in interior decoration and have been adopted by some of the foremost contemporary designers in the country. One of the latest applications of this striking upholstery material is in the new shop for the Dolcis Shoe Company at Coventry

The chairs and footstools are upholstered in a rich green tweed effect and the office walls are faced with a warm grey novelty check design.

LIONIDE Contemporary Effects' are made in a wide range of matt-finished gay, fashionable colours with the outstanding advantages of being hard-wearing and easily cleaned with a damp cloth

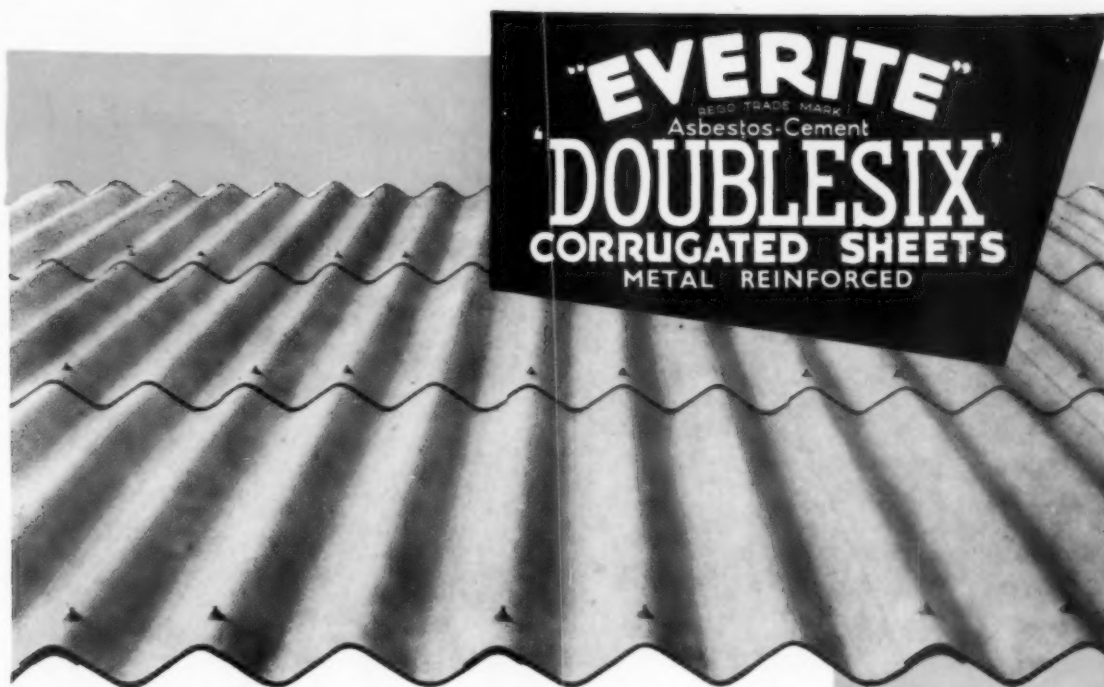
*Write now for samples and prices*



# LIONIDE

## CONTEMPORARY EFFECTS

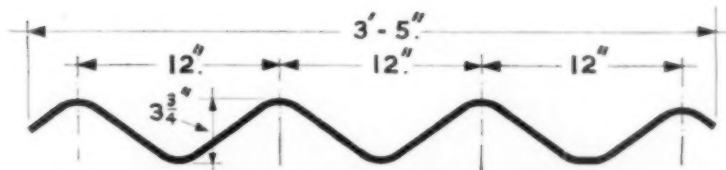
JAS. WILLIAMSON & SON LTD · LANCASTER



**"EVERITE"**  
REGD. TRADE MARK  
Asbestos-Cement  
**'DOUBLE SIX'**  
**CORRUGATED SHEETS**  
METAL REINFORCED

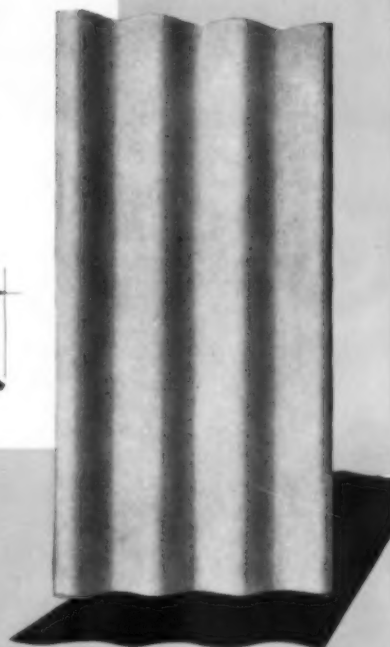
A MODERN Reinforced Asbestos-Cement corrugated roofing with purlins at 6' 6" centres.

The deep corrugations, generous side lap and closely fitting end lap make "EVERITE" Doublesix Corrugated Sheeting very suitable for comparatively low pitched roofing.



**DATA**

Standard lengths ...	6'0", 7'0" and 8'0"
Standard width ...	3'5" nominal
Nett. Covering width ...	3'0"
Corrugations per sheet ...	4
Pitch of corrugations ...	12°
Depth of corrugations ...	3 3/4"
Thickness of material ...	1" nominal
Side lap ...	5"
End lap — minimum ...	6"
Weight per sq. yard approx....	35 lb.
Weight per 100 sq. ft. roofing as laid ...	476 lb.



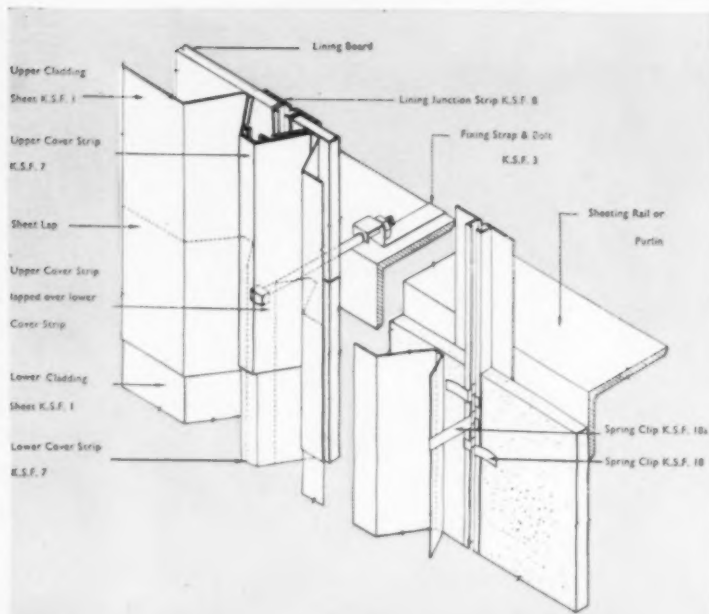
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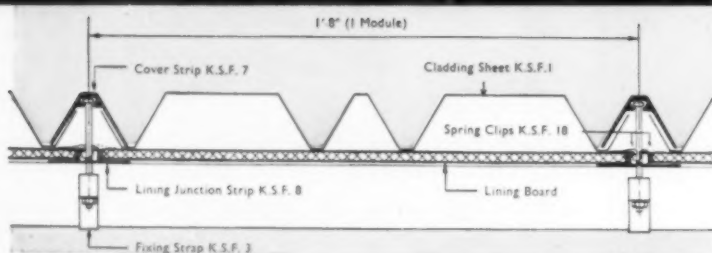
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# THE ARCHITECT & BUILDING NEWS

5 May 1955

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## SCOTLAND AND THE OCTOPUS

THE Rt. Hon. T. D. Galbraith, Minister of State for Scotland, spoke recently at the Scottish Building Societies' Association Annual Dinner at Inverness. After saying that his Government's policy was to encourage private ownership he touched on the chief problem which faces us to-day, and which was forecast by the whole architectural press.

"I have been looking at a few of the new private house schemes here and there in Scotland, and I am left with an unhappy feeling that some of the new houses being built for sale are not all that they might be. The design is often not up to date, the appearance is often not as attractive as that of some of the better local authority houses in which equipment, and also the internal planning, are often superior.

"I am very concerned that design in general does not seem to have moved with the times and that too many of these houses are 1935 or even 1925 models. That is really not good enough when we remember that they will not be fully paid for until about 1975, by which time the internal arrangements may well be obsolete.

"The Chancellor of the Exchequer has told us that it is possible for us to double our standard of living in the next 25 years—a short time in the life of a house. And so—if our homes are to keep pace with the advance we must be constantly studying to improve design and building techniques and constantly applying the lessons learnt. I ask are we doing that to-day? Are we applying the new materials, new methods of mass-production in building house-components, new scientific knowledge about such matters as heating and lighting, new labour-saving equipment, or are we still putting up the bungalows we were building twenty and thirty years ago, with wasteful open fires, chimneys that give as much heat to the garden as they do to the house, useless little halls and passages using up space that is badly needed in living rooms and kitchens? If that is

so it is possibly not the fault of any one section of the community. The purchaser accepts these houses because he doesn't realize how much better they might be; the builder builds them because he knows where he is with the familiar specifications; and the architect designs them because they are what his client asks for. This is a vicious circle, but it can be broken. If architects will keep their clients up to date; if builders will familiarize themselves with new designs and specifications, we shall see a great stride forward in our way of living."

In this connection the Saltire Society's new award in the form of scrolls and plaques, and of course publicity, is praiseworthy, but can anything more be done to speed up the process of education that is considered to be the only acceptable remedy?

With the spread of environment produced by the kind of development that offended the Minister's eye, the more difficult it may be to get people to rebel against it—it will be all-pervading. There is also the danger now Green Belts have been established in principle "to prevent the further unrestricted sprawl of great cities," that the area beyond the pale may be regarded as a no-man's land where the highfalutin ideas of planners, and landscape architects have no place.

To sum up in the words of Professor Myles Wright.

"There is . . . just cause for anxiety that the great majority of post-war private enterprise houses show no signs that those who built them have learnt anything since 1939 on matters of layout, design or equipment. They are again being built in twos and fours, their designs reflect little of the social revolution that must give precedence to the kitchen, the car and low maintenance costs, and less of all that has been learnt and published by the Ministries, the Building Research Station, the new towns and the local authorities."\*

\*Inaugural Lecture as Lever Professor of Civic Design, University of Liverpool, May 3.

## EVENTS AND COMMENTS

### JUST A PART OF THE SERVICE

Between the wars Austin Reed set a standard for men's shops which was quickly imitated by other firms. The Regent Street shop not only pioneered the respectability of clothes off the peg but also pioneered good store design. The original interior by A. J. Westwood, though now somewhat dated by its many faceted fittings and strange metalwork, has worn extremely well, and I do not know of a better designed or more up-to-date barber's shop anywhere. The Westwoods have been architects to Austin Reed for many years and have done most, but not all, of their shops. Their latest job is a replanned and redecorated top floor to the Regent's Street building where you may, if you wish, have clothes made for you.

Sir Hugh Casson, whose sartorial peculiarities have been, by his own confession, the despair of his nannie, mother and wife, opened the new floor at a party given by the directors of Austin Reed last week. Sir Hugh praised the firm for their good sense in being interested in leadership in good design as well as business.

It is always difficult to appreciate an interior when it is filled with stationary glass holders and peripatetic tray carriers, but enough of this one was visible to show well-designed fittings and pleasant contrasts in colour and texture. Apart from the ceiling most of the interior was shop-fitters' work, and was installed in two weeks. The joinery is very well finished and somewhat severe in detail. Decoration is provided by a large mural by Dennis Bailey at the head of the stairs and curtains designed by Betty Middleton Sandford. Both are students of the R.C.A. The scheme, by its restraint and pleasant atmosphere, once more puts Austin Reed ahead.

### RÖRSTRAND CERAMICS

If it was difficult to see the Westwoods and their work in Regent Street, the exhibition of Rörstrand ceramics at the Tea Centre was totally engulfed by the company. The exhibits were laid out on tables dotted about the room and nothing except spot-lights projected above this level. A great crowd—could it have been the advertised serving of champagne?—heard the Swedish Ambassador speak of his country's oldest manufacturers of ceramics in opening the exhibition, which was organized by Messrs. J. Wuidart & Co., the London agents.

I saw many simple things that I liked very much, particularly in plain-coloured earthenware. Each range is very well illustrated and described in a series of leaflets provided by the manufacturers. Some of the hand-painted and textured services were too fussy for me, although the standard of finish was very high.

The exhibition is mainly concerned with tableware, but there is also a small show of decorative pots, vases and bowls of curious shapes and fascinating glazes.

### A JOHN BRANDJEMAN EVENING AT THE A.A.

I have heard John Brandon-Jones on Philip Webb and Norman Shaw before. I hope I shall hear him again, for Mr. Brandon Jones is an enthusiast who should be encouraged. His subjects were most interesting people,

their architecture often most curious. Their opportunities for doing more or less as they liked with very large sums of their clients' money make our mouths water, and we are amazed at the very simple drawings which were apparently all that was considered necessary to enable the contractor to proceed with the works.

Mr. Brandon Jones loves his subjects but it is difficult to judge whether he loves their buildings. He quoted someone as saying that Norman Shaw was an able man with a strong taste for the ugly. And that, I think, about sums it up.

It is unfortunate that the clients of these two architects were so rich, for the houses they built were so big and in such out-of-the-way places that many have been pulled down and the majority of the remainder are virtually useless. Their vast interiors do not lend themselves easily to conversion.

John Betjeman, who proposed the vote of thanks, brought the proceedings to its correct level by addressing the speaker in Art Workers' Guild language as Brother Brandon Jones. As usual, he enjoyed himself, and entertained his audience by adding to the information provided by Mr. Brandon Jones. For example, was it generally known that the house in Queen's Gate designed by Norman Shaw and perhaps his finest house of all was in grave danger of being pulled down? Mr. Betjeman appealed to the A.A. to do something about it.

Both these speakers were nearly eclipsed by Mr. Ronald Jones, a cousin of B.-J., who, if my calculations are correct, is in his 80th year although he looks about 60. Mr. Jones described life in a Norman Shaw house and circulated a picture of it. Both the Joneses made the point that Shaw was much impressed by the possibilities of steelwork and frequently used it to enable him to plan the two floors of a house entirely differently with no walls carried through at all, although the elevation proclaimed the building to be "traditional" in construction.

This was a very pleasant and civilized evening which deserved to be better attended. It was, however, most interesting to see that those attending formed a fair cross-section of the membership.

### THE ROYAL ACADEMY

I did not hear the broadcast of the speeches from the R.A. dinner. I am told that they were a dull lot. From the report of the P.R.A.'s contribution I see that he considers this year's exhibition "exceptionally virile." He also said that there was a new spirit animating the arts. He was not so polite about architecture. He attacked it for its utility, and for being uncouth. "Boycott all mannerisms and all labour-saving in stone and marble," said the professor. He found in the present exhibition little to suggest qualities of civic embellishment worthy of a great period of reconstruction. If one considers Professor Richardson's remarks against the background of his works one can see little evidence of "the new force" in the arts although his design for Stone's Chop House will probably produce a dignified building, and the *Financial Times* building, how does it stand up to his attack?

There are considerably more architectural drawings and models this year. The traditionalists are on the way out and so are some of the best-known perspectivists. If the P.R.A. has his way, I am told, architects will only be allowed to submit their own drawings. To underline his point the Professor has included one of his beautifully





Mr. Bryan Westwood, F.R.I.B.A., A.A.Dipl.(Hons.), who has been elected President of The Architectural Association for its 109th session commencing on June 1, 1955.

drawn architectural fantasies. There is a great deal of good work to be seen by a wide choice of architects. There are a few eccentricities, some "bad modern" and some frankly bad drawings. There are several small elevations of official buildings submitted by the Ministry of Works where the architect must be having a very jolly time. I wonder that the Railway boys are not represented. I particularly liked some work by the deputy architect to the Metropolitan Police, Mr. C. R. Fowkes. There are several very sparkling perspectives by Mr. Frank Weemys. Basil Spence has a great new drawing of his cathedral, Sir Hugh Casson and Neville Conder, his partner, are both hung for the first time. Many of the buildings illustrated will be derided for being there but will earn praise from the critics when they are built and illustrated—some will not.

Among the portraits there are some excellent paintings, notably by Robert Buhler. Group portraits are becoming fashionable although all are not as big as Rodrigo Moynihan's panorama of Penguin Book directors, which includes Professor Nikolaus Pevsner. Annigoni's portrait of The Queen is an astonishing work of very great beauty and dignity. Simon Elwes, on the other hand, appears to have allowed the romantic idea of the frail girl Queen to run away with him. It is amazing that two painters could see the same person so differently.

As usual there are a great many paintings that it would be nice to own—in particular one of a cat, already sold when I saw it—and a number that must have been rushed through in bad light when the committee were tired.

## BASIC HOUSING IN HONG KONG

An agent who accompanied Sir Howard Robertson on his recent visit to the Far East tells me that, in Hong Kong, they were greatly impressed by the work of the P.W.D. architects' department, under Mr. Michael Wright, in rehousing 20,000 refugees in four months. This has been done in Kowloon, where some million and a half Chinese are still living on the hills in shacks. The rehousing has been done in five-storied buildings having balcony access and centralized w.c.s and washing places. Each family has one room 10ft x 8ft. Later it is hoped to double this accommodation by removing a partition wall. Eventually this space, too, will be doubled. How long it will be before the basic accommodation can be doubled depends on the speed of building. Even at the present prodigious rate, it would take 30 years to house everyone in the basic accommodation. The provision of the removable wall in these circumstances seems a little optimistic.

The vastness of the problem, however, should not be allowed to obscure the achievement of the P.W.D. so far. I understand that the buildings are of reinforced concrete with load-bearing spine walls and reinforced brick balustrades.

## CROCODILE SHOESHINE IN BANGKOK

The same party visited a temple in Bangkok. Leaving their shoes at the door, their guide, a Thai princess, took them round the temple, which was under repair. When they returned, Sir Howard's shoes had vanished. The guide sent for the general foreman and very nearly scratched his eyes out. He could offer no explanation. The workmen gathered round, making the appropriate Thai noise of shock and puzzlement. In the end the foreman said that he had come to the conclusion that they must have been taken by the temple crocodile.

My agent was obliged to go to the bazaar and buy a pair of plimsolls in which the P.P.R.I.B.A. continued his tour.

## THE L.M.B.A. LECTURE

The London Master Builders' Lecture for 1955 is to be given by Professor Richardson, P.R.A., at the Royal Institution on Wednesday, July 27, at 5 p.m. His subject will be the rebuilding of London. This is the fourth of the series to be given by an architect. Last year, you will remember, it was Sir Howard Robertson. On that occasion it was suggested that the R.I.B.A. might invite a distinguished builder to a return match. Nothing has so far come of this proposal, but would it not be a good idea? We have often had discussions which have included the builders' detailed views on architects, but we have never heard a top builder survey the architectural scene. My own view of this idea is that not very many builders would be willing to take it on—unless as a slanging match, and that would be dull. Architects may give builders the creeps with their alleged unbusinesslike ways, lack of time sense and changes of mind, but how often does an architect meet a builder who truly appreciates good architecture as opposed to good building? I do not believe that there are more than half a dozen men in the industry who could make a real contribution on this subject. All the same, we could ask one of them, could we not?

## ALVAR AALTO

Professor Alvar Aalto has been elected to the Finnish Academy. This is a very great honour and I understand that he is the first architect to be so elected.

ABNER



Stone's Chop House.

Architect: A. E. Richardson, P.R.A. Drawn by S. P. A. Holland  
(Other Royal Academy pictures on pages 524-529)

### Ackroydon Point Block

At the L.C.C. meeting on April 26, Mr. Norman Farmer put the following question to the chairman of the Housing Committee:

"Concerning the eleven-storey flats at Ackroydon estate, Wandsworth: (i) Has his attention been called to the report in the national Press enumerating numerous complaints, as follows:—

- (a) Heating by gas costs the tenants 35s a week;
- (b) dampness and excessive condensation are present;
- (c) windows and doors cause draughts through being badly fitted;

(d) lifts are noisy and unreliable?

(ii) Is this not outrageous for modern and costly flats and does it not point to faulty construction and/or design?

(iii) Has his assurance given to the tenants that 'Whatever is wrong will be put right' been carried out?

(iv) What is the cost of rectifying?

(v) Are these complaints due in part to the fact that Council flats are occupied before drying-out?"

Mr. A. Reginald Stamp replied as follows:

"My attention has been drawn to certain Press reports on the complaints mentioned.

"I have discussed these matters with the tenants. Many items have already been put right and the rest are in hand.

"It would be wrong to infer from these complaints faulty construction or design of the buildings. Weather penetration occurred owing to the exceptionally tempestuous gales last November, and minor teething troubles have also been experienced with this new type of building. Remedial works have been completed but the cost is not yet available. The experience gained will obviate a recurrence of similar trouble in future blocks.

"It is inevitable that a certain amount of drying out will occur over a considerable period in any circumstances, but abnormal atmospheric conditions must be taken into account.

"On the basis of a survey by the Building Research Station covering 18 flats for a period of six weeks, cooking, space heating, hot water and lighting cost an average of 20s 6d per week which under the Gas Board's new charges will be reduced to 19s 4d. Generally it can be said that the windows and doors are up to standard and that the lifts are of a proved design which, subject to proper use, are giving satisfactory service."

Mr. Farmer—Could I ask the Chairman if he would kindly answer (iv)—What is the cost of rectifying?

Mr. Stamp—I have stated in my reply that an estimate cannot be given at the present time.

### Christian Sculpture To-day

The first modern sculpture exhibition to be held in a London church was opened on May 3 at St. John's Church, St. John's Wood, N.W.8. The exhibition is on a national scale and contains 90 works from many parts of England and also from Scotland. It will remain open until May 30.

Well-known sculptors exhibiting include Sir Jacob Epstein, Sir William Reid Dick, Charles Wheeler, R.A., Willi Soukop, Dora Gordine and Gertrude Hermes. Work by a number of young sculptors are also on view. The works are of great variety, from the traditional to the extremely unorthodox, and are in many different materials, every kind of metal, stone, wood and synthetic materials.

### PARTNERSHIP

Mr. A. B. Waters and Mr. A. Llewellyn Smith announce that they have taken into partnership, B. G. Fender, A.R.I.B.A., A.R.I.C.S.; R. S. Laskey, M.A., F.R.I.B.A.; F. H. Lloyd, A.R.I.B.A., all of whom have been on their staff for a number of years. The style of the firm will remain Llewellyn Smith & Waters.

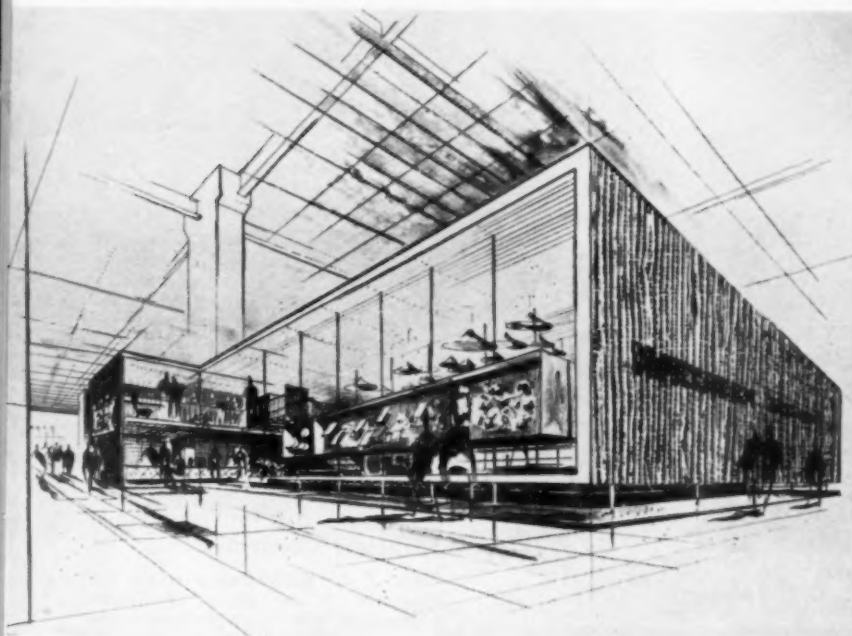
### CHANGE OF ADDRESS

Richard Sheppard and Partners have changed their address as from May 7 from 16 Bedford Place, W.C.1 to 5, Southampton Place, W.C.1. Tel.: Chancery 4261-5.

Mr. Francis T. Blennerhassett, O.B.E., L.R.I.B.A., has been elected chairman of Warwickshire County Council.



The New Research and Development Centre of John Laing & Son Ltd. at Boreham Wood, Herts, which was opened last week by Mr. Nigel Birch, the Minister of Works. Architects: S. Greenwood, A.R.I.B.A. and H. N. Michell, A.R.I.B.A. The building was built by John Laing & Son Ltd.



The stand of the Northern Ireland Government. Architects: Leslie Gooday and Wycliffe Noble

## British Industries Fair

THIS year's B.I.F., the first to be run wholly as a commercial undertaking, was opened officially by Admiral the Earl Mountbatten of Burma at Olympia, London, on May 2. Her Majesty the Queen accompanied by H.R.H. the Duke of Edinburgh will visit Olympia on May 10.

This year the Fair is being held in two sections, one at Olympia and the other at Castle Bromwich, Birmingham. The section at Olympia is organized by the new company, British Industries Fair, Ltd., and the Castle Bromwich section by the Birmingham Chamber of Commerce. The Fair closes on May 13.

The exhibition at Olympia, the "consumer goods" section generally speaking, has much less of interest to the architect than in previous years. Next year, with Earls Court in use, although earlier in the year, there will again be the sections of particular interest to architects. This year, however, there is plenty of good design, textiles, furnishings, silverware and so on. There are also some very interesting stands punctuating the co-ordinated layout of the exhibition, in particular are the stands of British Nylon Spinners, Courtaulds, The Government of Northern Ireland, Smiths, Bentima, J. Arthur Rank and I.C.I.

At Castle Bromwich the mixture is very much as before and, in fact, the visitor will not notice any change in organization. The hardware, engineering, electrical, building and heating industries are represented by more than 1,000 firms. In the outdoor section, structural, agricultural, mining and contractors' equipment form the usual

impressive and instructive display.

Shelvoke & Drewry, Ltd., of Letchworth, are exhibiting the "Freight-lifter" industrial fork lift truck for the first time. It is designed to handle loads in confined spaces and the turning radius is only 9ft 8in. It can be fitted with an interchangeable crane jib or with a ram attachment for handling heavy coils. The length of the ram can be altered to suit requirements.

F. E. Weatherill, Ltd., of Welwyn Garden City, are showing two new models amongst six different types of loading shovels. One of these is the 3 cu yd capacity 6HL "Weatherill Hydraulic" coke loader with which is offered a readily interchangeable scoop of 1½ cu yd to enable the machine to be used for heavier materials. A patented system also provides true forward crowding action of the scoop. The other is the 4HTW, an hydraulically operated overloader which combines forward and rear scoop discharge. Scoop crowding action is incorporated and discharge control of the scoop is another feature of design.

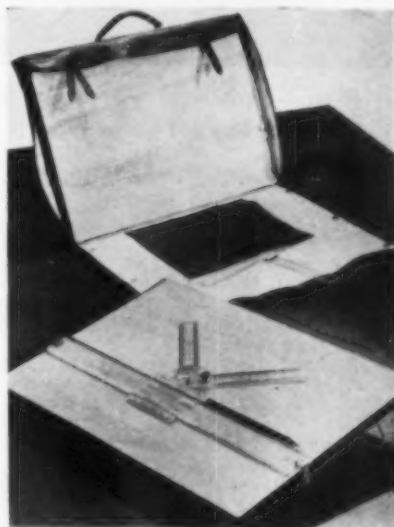
A newly developed side-tipping trailer dumper is being shown by Bates Bros. (Sheet Metal Workers), Ltd., of Wythenshawe. This firm's "Mudmaster" track converts an orthodox vehicle into a semi-tracked one.

The main feature of a new crane exhibited by J. W. & T. H. Carter, Ltd., of Hull, is that it is easily convertible from a pneumatic-tyred vehicle into a tracked one without major workshop operation.

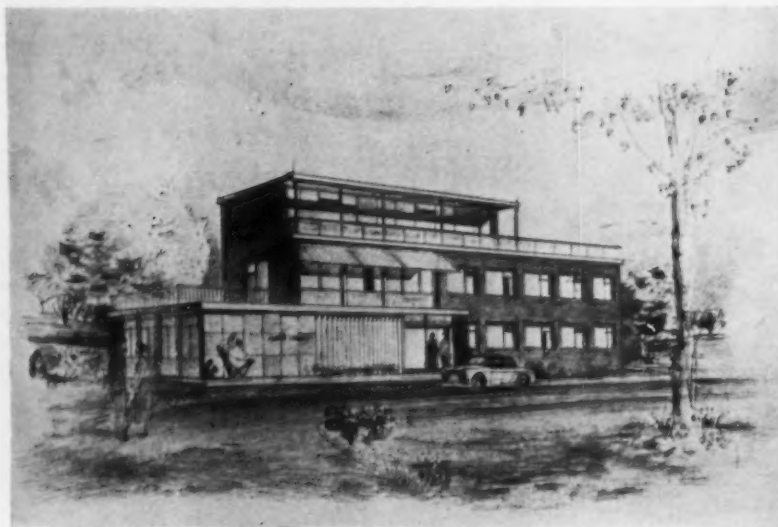
The stand of Thos. Storey (Engineers), Ltd., of Stockport, is dominated by a composite Bailey Bridge structure

embodying the latest developments. The bridge, which is over 200ft long, is an example of the type of equipment which could be used by the Ministry of Transport during its roads and bridges expansion scheme, and is available under the company's hire service, operated throughout the United Kingdom.

Dargue Bros., Ltd., are showing the miniature portable draughting machine illustrated below. The mechanism offers fingertip control based on a counterbalance. The whole fits into a dispatch case.







Administration Building, Crawley, Sussex.  
Architect: Edward D. Mills. Drawn by G. C. Bodgener



Flats at Hove, Sussex. Architect: Eric Lyons. Drawn by E. J. Thring

## In Parliament

### Tightening the Green Belt

A statement on policy on the green belts round London and in other areas by the Minister of Housing and Local Government included the decision that no more building is to be permitted within the London belt, and an invitation to planning authorities elsewhere to create green belts of their own.

Mr. Sandys said he was convinced that, for the well-being of our people and for the preservation of the countryside, "we have a clear duty to do all we can to prevent the further unrestricted sprawl of the great cities."

The Development Plans submitted by the local planning authorities for the Home Counties provided for a

green belt, some 7 to 10 miles deep, all around the built-up area of Greater London. "Apart from some limited rounding-off of existing small towns and villages, no further urban expansion is to be allowed within this belt. These proposals, if strictly adhered to, should prove most effective. For this the authorities in the Home Counties deserve much credit."

In other parts of the country, certain planning authorities were endeavouring, by administrative action, to restrict further building development around the large urban areas. But he regretted that nowhere had any formal green belt as yet been proposed. He was accordingly asking all planning authorities concerned to give this matter further consideration, with a view to submit-

ting to these proposals for the creation of clearly defined green belts, wherever this was appropriate. However, he did not intend on this account to hold up approval of development plans already before him. Additional provisions for green belts could be incorporated later. (April 26.)

### Land Values Claims

Mr. J. Enoch Powell asked the Minister of Housing and Local Government whether he would consider taking steps to extend the period during which application may be made for payments for depreciation of land values under Part I of the Town and Country Planning Act, 1954. Mr. Deedes announced that the Minister had made a regulation extending until the end of June the period within which claims may be made, and the Secretary of State for Scotland was taking similar action. (April 26.)

### Identical Contracts

Mr. J. P. W. Mallalieu asked the President of the Board of Trade whether he was aware that constructional steel firms were submitting identical tenders to local councils for the construction of schools, and what action he proposed to take by reference to the Monopolies Commission or otherwise. Mr. Thorneycroft said that he knew of this, and would take account of it in selecting further matters for reference to the commission. Mr. Mallalieu stated that the same thing was happening in connection with local authority contracts for cement; chain-link fencing; bolts, nuts and washers; metal windows; precast concrete goods; and bitumen emulsion and road tar. Mr. Thorneycroft replied that the supply of metal windows was already being investigated. He would consider the possibility of other references where it appeared that the conditions defined in the Monopolies Acts prevailed. (April 28.)

### Architects for Schools

In the account which the Minister of Education gave the Commons of prospective expansion in the education services, he spoke of the factors which had permitted the relaxation of restrictions on school building. The "battle of numbers" was within sight of victory, and the completion of new schools would no longer be a neck-and-neck race with the rise in the school population. The cost of extra building under Circular 283 (which authorized the relaxation) was already known to be about £10 millions for this year, and, in addition, there would be £4 millions more spent on minor works. The comment Sir David Eccles made on this was that the works departments of county councils were now at full stretch. He was encouraging them to put out work to private architects, and they tried to do so, but that could not be done very quickly and required some supervision. (April 26.)





The "New Moon": proposed Public House.  
Architect: Ernest B. Musman. Drawn by the architect



High Flats in Twin Towers. Architects: J. H. Forshaw,  
M. B. Blackshaw and A. A. Bellamy. Drawn by A. A. Bellamy



Metropolitan Police Housing, Mansfield Heights, Highgate.  
Architect: Sidney J. Hanchet. Drawn by J. A. Neyroud

### York and East Yorkshire Architectural Society Dinner-Dance

This year's Annual Dinner and Dance of the York and East Yorkshire Architectural Society was held on Friday, April 15, at the Royal Station Hotel, Hull, and was attended by some 150 members and guests. Mr. Allanson Hick, President of the Society, was in the Chair. The President R.I.B.A., Mr. C. H. Aslin, C.B.E., and Mrs. Aslin were the guests of honour. Among the other guests were the Sheriff of Hull and his wife—Mr. and Mrs. A. S. Horsley; Lt. Col. Rupert Alec-Smith and Mrs. Alec-Smith; Mr. H. Bennett, President of the West Yorkshire Society of

Architects, and Mrs. Bennett; Mr. H. A. Hickson, President of the Sheffield, South Yorkshire and District Society of Architects and Surveyors, and Mrs. Hickson; Mr. D. L. Staniland, Chairman of the Yorkshire Branch of the Royal Institution of Chartered Surveyors, and Mrs. Staniland; Dr. O. G. Prosser, President of the Hull Branch British Medical Association, and Mrs. Prosser; Mr. R. F. Payne, President of the Hull Incorporated Law Society, and Mrs. Payne; Mr. S. I. Hemming, Principal of the Hull College of Arts, and Mrs. Hemming; Mr. P. C. Finch, President of the Hull Building Trades Employers Association, and Mrs. Finch; Mr. J. J. Fisher, President of the Hull Guild of Building, and Miss Fisher.

The Toast of the R.I.B.A. and its President was proposed by the Sheriff of Hull and Mr. C. H. Aslin responded. Mr. Allanson Hick was the proposer of the Health of the Guests and this was responded to by Lt. Col. Alec-Smith who is an ex Sheriff of the City and an Honorary member of the Society. In his speech Col. Alec-Smith mentioned the importance of architectural tradition in the development of contemporary building style and he referred to the possibility of a School of Architecture within the University, now that the University of Hull has been granted its Charter and might therefore award an Architectural Degree.

It has long been the desire of many members of the Society and profession that the School should have University status.

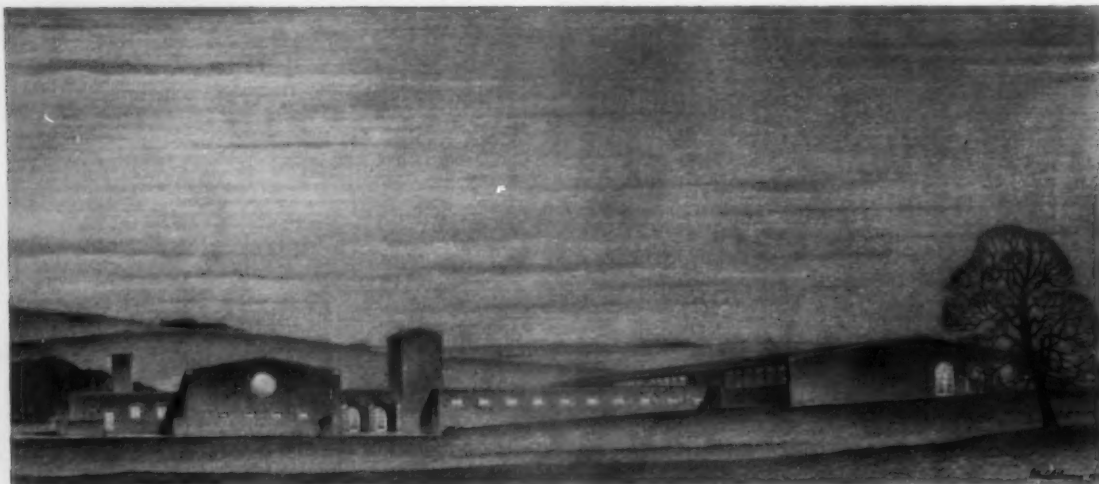
The dinner was followed by a well-attended dance in which a number of students and younger members also participated.

### T. & C. P. A. Study Tours to New Towns

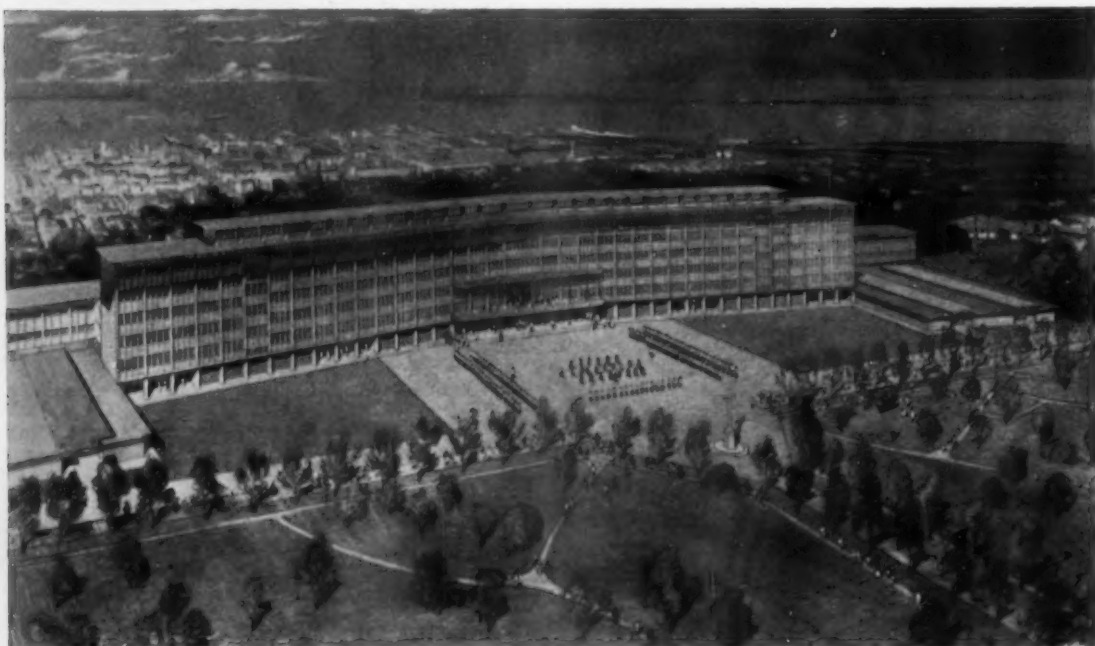
The Town and Country Planning Association have arranged a number of one-day coach tours to the new towns during the coming months.

The first of these tours, on Thursday, May 19, will be a visit to the L.C.C. Estate at Oxhey, also Hemel Hempstead a new town in Hertfordshire, including the New Town Centre. The tour will be led by Mrs. E. Denington, Vice-Chairman, Housing Committee, L.C.C., and the party will be welcomed on arrival at Hemel Hempstead by His Worship the Mayor.

On Thursday, June 9, Mr. Reginald Stamp, Chairman of the Housing Committee, L.C.C., will lead a tour to the L.C.C. Estate at Merstham and



Secondary Modern School, Crigglestone, Yorkshire.  
Architects: H. Farquharson and D. H. McMorran. Drawn by A. Shearing



Preliminary scheme for proposed Government Buildings at Kingston, Jamaica: view from North.  
Architect: Graham Dawbarn (Norman & Dawbarn). Drawn by J. D. M. Harvey

Crawley New Town (Sussex). The party will be shown the new central administrative and shopping area, industrial area, residential areas, neighbourhood shops, community centres, etc.

On Wednesday, July 20, Welwyn Garden City and Hatfield New Town (Herts) will be visited and will include a tour of residential and factory areas, shopping centres, schools, etc. and Ludwick social centre.

On Wednesday, September 7, Harlow, Essex, New Town will be visited, which will include the first completed

neighbourhood unit (Mark Hall and Nettleswell); New Group Medical Practice Centres, Town Centre construction, etc.

Full particulars of these tours are available from The Secretary, Town and Country Planning Association, The Planning Centre, 28, King Street, Covent Garden, W.C.2.

#### Visit to Crawley New Town

The Planning Forum, 28, King Street, Covent Garden, London, W.C.2, have arranged a visit to Craw-

ley New Town on Saturday, June 4, 1955. Further information and applications to join this tour should be made by not later than May 18, to: The Secretary.

#### R.I.B.A. Library Group

The next meeting of the Library Group will take place on Monday, May 9, at 6 p.m. at the R.I.B.A.

The evening will be devoted to a talk by Mr. G. Anthony Atkinson, A.R.I.B.A., entitled: "Architecture of Islam: some buildings in Africa, the Mediterranean area, and South Asia,



Alleynes Grammar School, Stevenage, for Hertfordshire County Council: Rebuilding.  
Architect: Sir Howard Robertson, A.R.A. (Easton & Robertson). Drawn by Lawrence Wright

whose design has been influenced by Moslem cultural conditions."

## COMING EVENTS

### Town and Country Planning Association

May 5 at 2.30 p.m. Annual General Meeting. The Rt. Hon. Lord Horder, G.C.V.O., will preside, and the Minister of Housing and Local Government, The Rt. Hon. Duncan Sandys, M.P., will address the members. At the Planning Centre, 28 King Street, Covent Garden, W.C.2.

### Council of Visual Education

May 10 at 2.30 p.m. Annual General Meeting at the Housing Centre, followed by an address by Dr. Nikolaus Pevsner on "Townscape," after which there will be a discussion. Tea at 4.15 p.m.

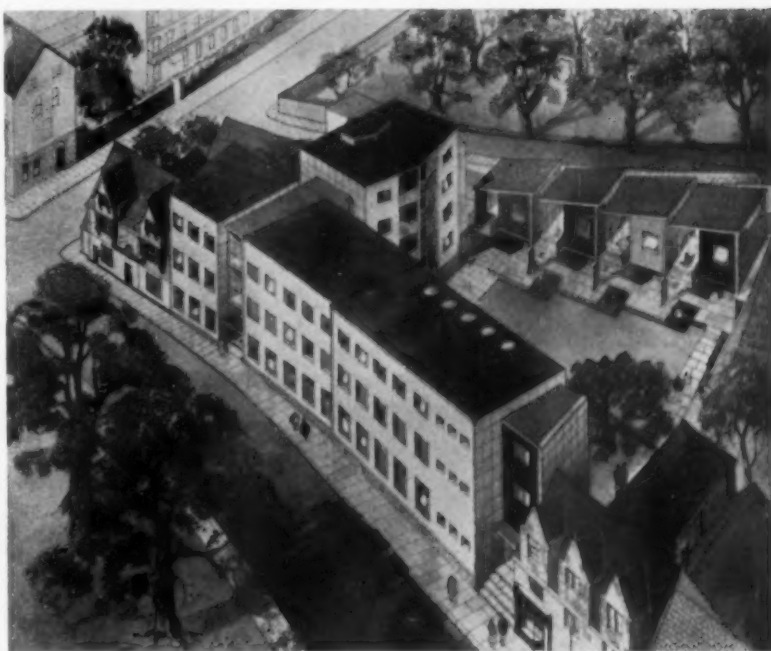
### London Master Builders Association

May 10. The annual "City" luncheon of the L.M.B.A.'s No. 3 Area is to be held this year in Cutlers Hall. Mr. F. L. Baker, F.I.O.B., Chairman of the Area, will preside, and the guest of honour will be the President, Mr. L. J. Holloway.

May 11 at 1 p.m. General Meeting of Central Area No. 1. This meeting is being devoted to a discussion of the R.I.B.A. Form of Contract. The meeting will be attended by A. G. Miles, M.I.O.B., Chairman of the L.M.B.A. Contracts Committee, and R. S. Williams, M.I.O.B., Chairman of the National Federation Contracts Committee. At Derry & Tom's Restaurant.

## CORRECTION

On page 483, in the Oil-Fired Heating issue of April 21, the Langham Draught Stabiliser attributed to Industrial and Domestic Heaters, Ltd. is, in fact, manufactured by Alfred Langham of 15, Capthorne Avenue, Harrow, Middx.



Offices and Flats for St. John's College: 24-29 St. Giles, Oxford.  
Architect: Lionel Brett. Drawn by Newton Watson

## EXHIBITIONS

### The Architectural Association

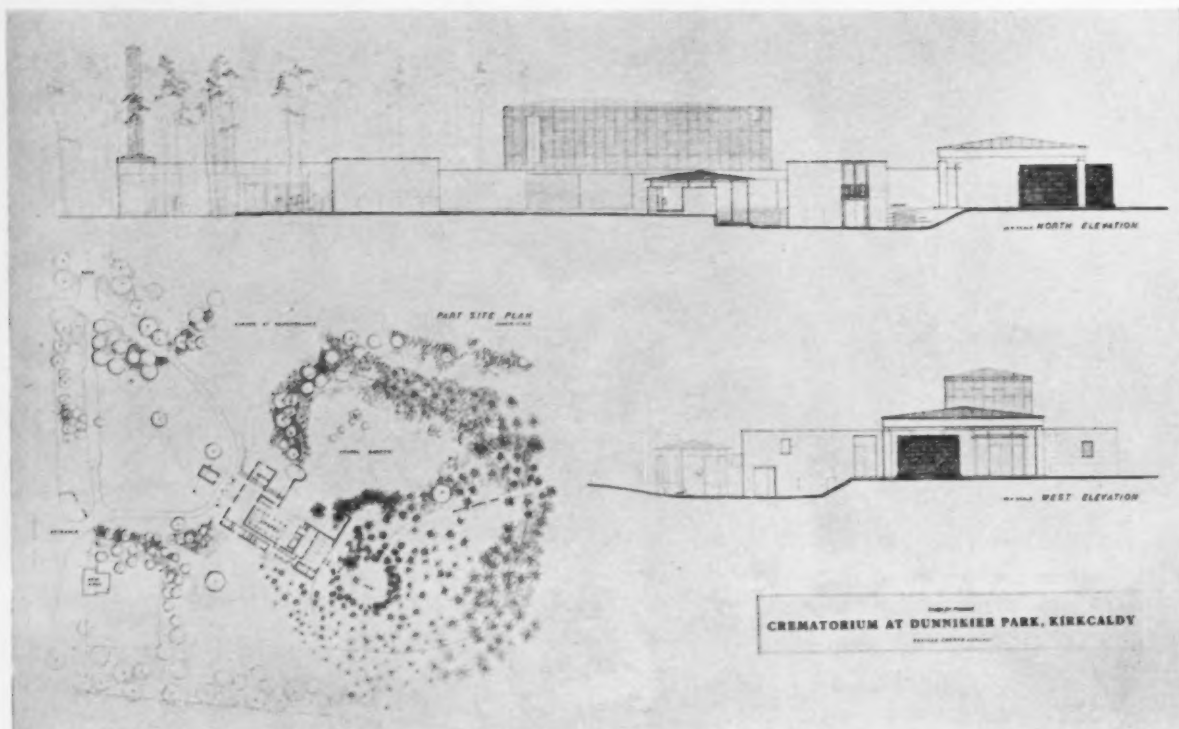
May 2-13. Exhibition of work by Sculptors at the Royal College of Art. At 34 Bedford Square, W.C.1.

### College of Further Education, Grimsby

May 5-11. Building Exhibition. Open daily except Sunday. 10.30 a.m. to 8 p.m., Thursday 3.30 p.m. to 8 p.m. At Nuns Corner, Laceby Road, Grimsby.

## City Churches Restoration Progress

Since the Reorganization Scheme for the City Churches became effective just over a year ago architects have been instructed to prepare plans for restoration, or the work of reconstruction has actually started, in the case of all the churches concerned. Under the scheme there are 24 Parish Churches



Design for Crematorium at Kirkcaldy.

Architect: Neville Conder

and 15 (out of 16) Guild Churches have been designated.

Those where large-scale rebuilding operations have begun include St. Lawrence Jewry, architect, Mr. Cecil Brown; St. Mary-le-Bow, under Mr. Laurence King; St. Bride, Fleet Street, architect, Mr. Godfrey Allen; and St.

Vedast, Foster Lane, architect, Mr. S. Dykes Bower.

Plans are now being prepared for rebuilding the following churches by the architects named: St. Andrew, Holborn, Messrs. Seely and Paget; St. Andrew - by - the - Wardrobe, Mr. Marshall Sisson; and St. Nicholas,

Cole, Abbey, Messrs. Ansell and Bailey.

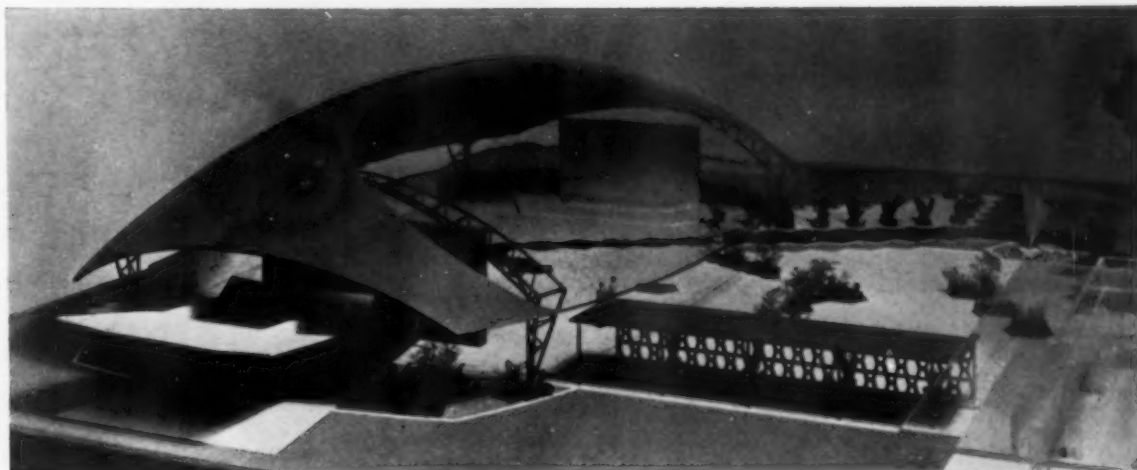
Less extensive restorations have started or are pending at St. Katherine Cree; All Hallows, London Wall; St. James, Garlickhythe; St. Michael, Paternoster Royal; St. Martin, Ludgate; St. Benet, Paul's Wharf.



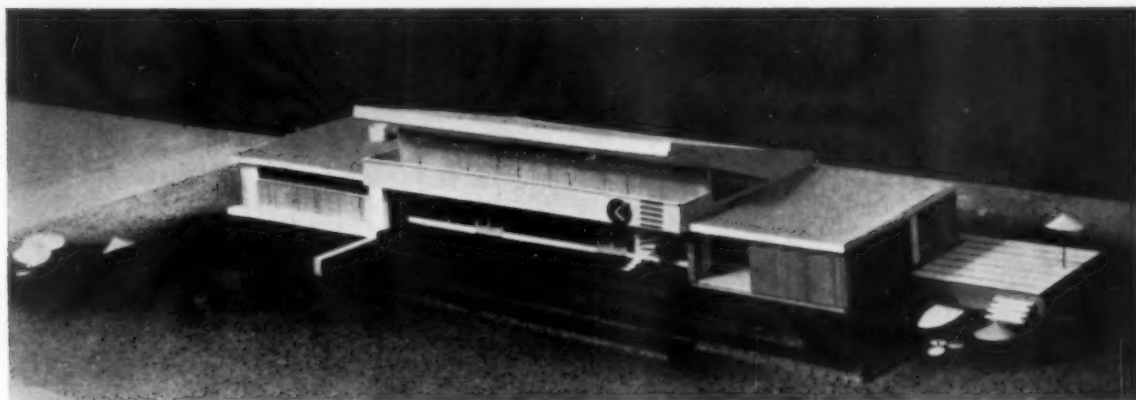
Royal Alfred Merchant Seamen's Home, Belvedere, Kent.

Architects: Gollins, Melvin, Ward &amp; Partners

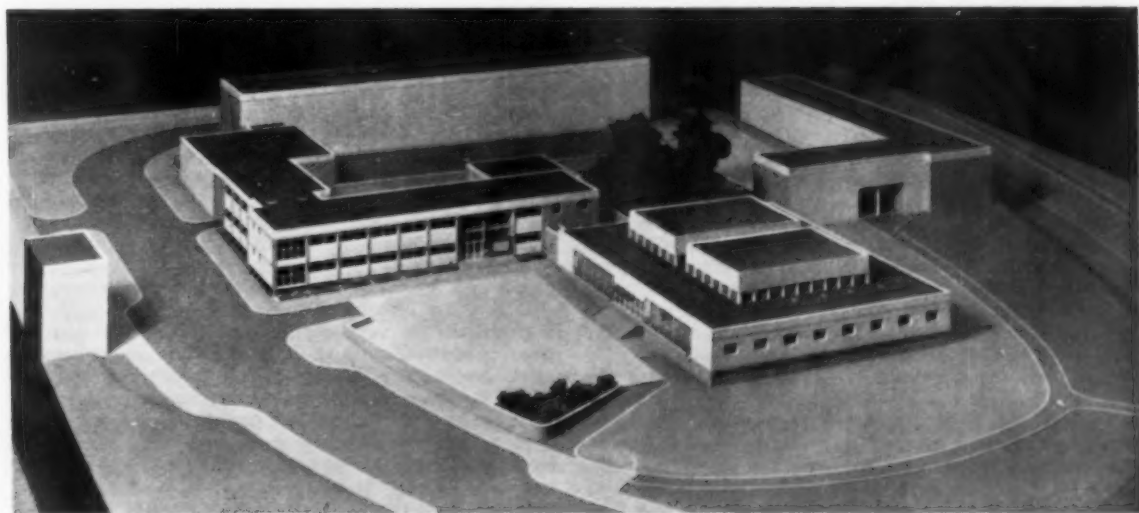




Assembly Hall, Engineering College, Rangoon.  
Architects: Raglan Squire and Partners. Model by J. B. Thorp



New Pavilion, East Molesey Cricket Club.  
Architect: Basil Ward (Ramsay, Murray & White). Model by G. P. Buzuk



Harlow Police Station and Courts.  
Architect: Frederick Gibberd



## MANNERS BAD AND GOOD

**T**WO new building schemes in Bristol illustrate with extraordinary clarity the difference between good and bad manners in architecture, and also show how much greater are the mystique and influence of Georgian than the appeal possessed by Victorian, even if it is good Victorian, work.

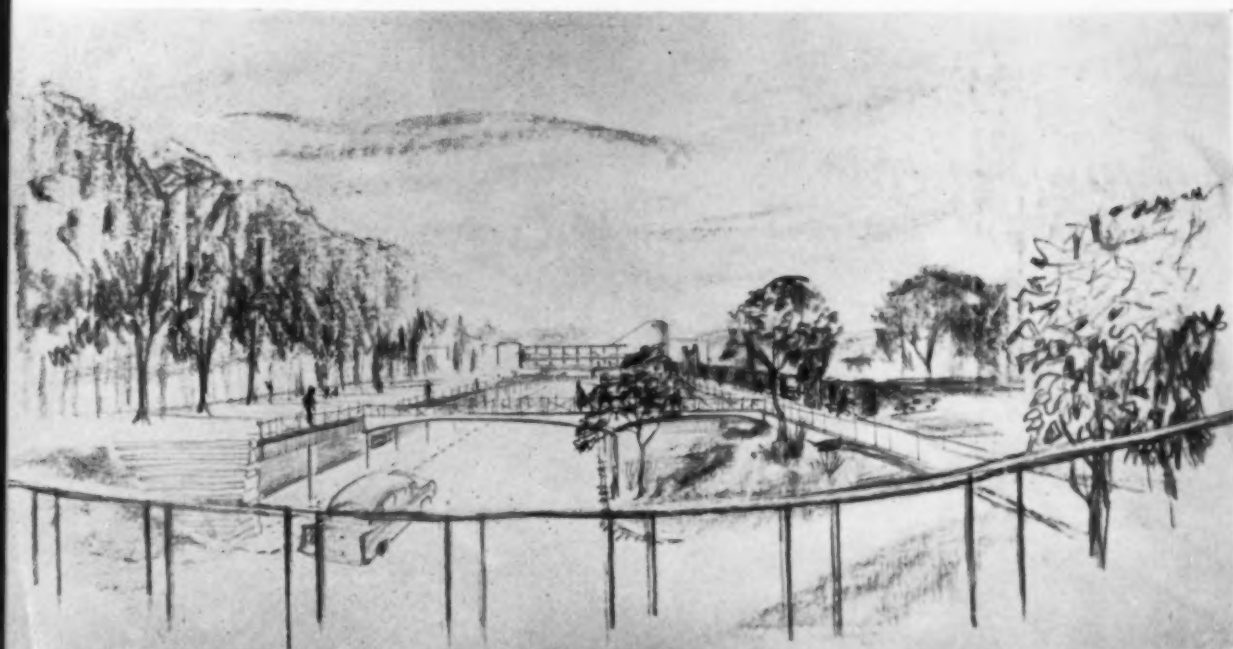
One of the schemes concerns an individual building, already completed and in use, which stands in the middle of a range of the 1850s whose central section was punched out by bombing. The other, only a short distance away and still far from complete, concerns the buildings completed or in progress in order to fill several war damage gaps in an important Georgian street.

The former building, involving gross violence to an excellent piece of Victorian classic architecture, is the new shop built in Queen's Road, Clifton, by Messrs. Daniel Neal. The photograph shows well what has happened. The earlier range of buildings, in which a large bomb gap was unfortunately made, is shown in a street map of 1857; it is probably almost exactly a century old. What is more, it is a really tasteful, uniform range of mid-nineteenth-century classical architecture, a clear reminiscence, but built for shops and commerce and not residential, of the traditions of the terrace and of Renaissance taste. Good Victorian classical architecture is all too rare after about 1845, still less is it often found in the form of uniformly planned shops. The range in Queen's Road was therefore deserving of much respect. How little it has received from the new shop, with its cavernous entry, bald surfaces, and disrespectful storey elevations, one can clearly see. The pity of it is that the new shop would be very far from being a bad building if one were to view it in isolation or amid the variegated banalities which have now, with a very few exceptions, been allowed to fill up the newly developed shopping street in Broadmead about a mile away. Yet some attempt was apparently made by the Planning authorities of Bristol to ensure some degree of mannerliness when their permission was given for this and other replacements in Queen's Road (this particular gap is to have two more shops next to that of Messrs. Daniel Neal). One could not, perhaps, insist in the circumstances on exact replicas of the work done in about 1855, though in the contemporary, but some-

what less meritorious, Victoria Square, Clifton, a private house was recently built so as to match exactly the façades of the two identical residences on each side of the bomb gap thus filled in. At least, however, one could have hoped for a better respect to the Queen's Road shopping terrace than has been shown by Messrs. Daniel Neal, the more so when one hears that the Planning authorities tried to have the fenestrations, fascias, string courses, and main cornice levels of the new work aligned with what was there before. Some attempt has, indeed, been made to relate the second-floor windows of the new work to those of the Victorian building, and one may fairly assume that the present colour contrast will seem less glaring with the mellowing of the stone facing, but in general the photograph tells of very poor success in any efforts that may have been made to achieve sympathy.

The other operation is only a short distance away, in Park Street. This street was originally, like Milsom Street in Bath, entirely composed of select residential property. It has now, like Milsom Street, become a "smart" shopping thoroughfare, the ground floor appearance of all its houses having been radically altered by modern shop fronts, and a few of the houses having been rebuilt or refaced in the Victorian period. About a third of the shops were destroyed by bombing. Permanent reinstatement is now in full swing. Our photograph shows that the new buildings, above their ground floors, are being rendered in strict conformity with the simple, late eighteenth-century Georgian of the majority of the properties which survived the war; a similar policy has been followed, a short distance away, in the rebuilding of the Y.W.C.A. Hostel in Berkeley Square. The result in Park Street will be that the street will keep as much of its Georgian character as was left to it by its nineteenth-century commercial transformation. Had there been any proposal to erect new buildings markedly out of conformity with the Georgian work it would have been easy enough for the Local Authority, backed perhaps by a degree of public outcry, to insist on a respectful attitude to the work of the eighteenth-century builders. No such happy outcome, in the present state of opinion about any but the more whimsical of Victorian buildings, could ever have been expected in Queen's Road.

BRYAN LITTLE.



## ***Landscape Design for Nottingham University***

architect: G. A. JELICOE, F.R.I.B.A., M.T.P.I.

THE present area of the site is 257.58 acres. The Plan assumes additional land to bring the total to 436.38 acres. To the east the site adjoins Nottingham, with a romantic prospect of castle and city; to the south is the flat land of the Trent Valley and a broad industrial landscape; westward lies Beeston, with the well-placed factory of Messrs. Boots; and to the north lies the seven hundred acres of permanent open parkland of Wollaton Hall, now a city museum. The site is bounded on the east by Clifton Boulevard, to be extended southwards to cross the new Trent bridge; on the south by University Boulevard, beyond which are the playing fields; on the north by the Derby Road; and on the west in due course by the extension of Woodside Road. It has been assumed that Beeston Lane will become part of University Park.

### **Proposals: General Locations**

The future development both of the Arts and of the Sciences being unforeseeable, the buildings have been planned for (a) flexibility of use, (b) expansion in all parts. These two requirements have been basic to the landscape pattern.

The shape of the peninsula upon which already stand the main university buildings, has been emphasized. Indeed, association of ideas will force the imagination to liken the crown of the hill to a medieval hilltop town or monastery, an origin of the modern university.

The central buildings group round the west and north escarpment of the peninsula. Enclosed within are gardens and groves of trees. The isthmus of land to the north carries the men's Halls to the perimeter of the site.

Vast and unpredictable as to their future, and overlooked with some anxiety by the chapel, the Science departments lie in the only possible position on the level land east of the hill.

The Trent Building by virtue of its size, position and historic character, has been wholly adopted as a teaching library of one million volumes. The character of the great hall and the existing library should be retained.

The domestic identity of the Vice-Chancellor's residence, and of the Faculty Club, have continued to be recognized and retained, in order to emphasize the human scale in a group of buildings that is essentially monumental.

The administration building is placed for ease of access from all parts, and forms a single unit with adjoining buildings of the Humanities, grouped along a sequence of garden courts. Here also will be the Institute of Education and the Department of Education.

The gardens are closed on the north by buildings of general use, and by the majestic copper-domed Assembly Hall.

West of the Humanities buildings the ground falls and extensions are woven round the existing house, once the home of Lord Trent.

The men's Halls are grouped round the perimeter east of the Wollaton Park entrance; the women's Halls are along the west boundary.

It is proposed that the public buildings east of the lake be incorporated in the university precinct and redesigned as a sports centre.

It has not been considered desirable or possible to include an arboretum within the existing site. The general overall character of the trees is reminiscent of the co-ordinated landscape of an English park, and there is insufficient space available for a special reserve for specimen trees. Nevertheless, there is scope for special trees interspersed throughout the site, and certainly within the protection of the centre gardens precious and unusual trees may be desirable as an enrichment to the botanical and faculty gardens.

## Landscape Design for Nottingham University



No medical school has been shown on the plans. This would require from 40 to 70 acres of land and would occupy the north-west corner in place of two residential colleges.

In view of the construction of the new bridge across the Trent, the north-east corner of the site has been allocated to a hotel. Above the hotel would be a number of residential flats suitable for married research students or staff.





Above: Botanical Gardens. Below: University Boulevard



PROPOSALS

EXISTING PLAN



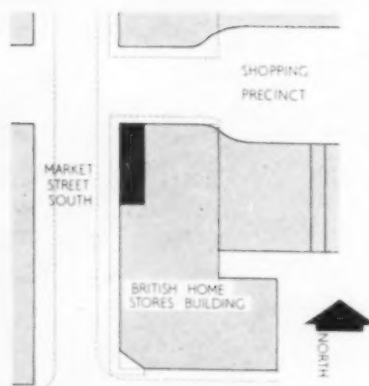


## DOLCIS SHOE SHOP, COVENTRY

architect: ELLIS E. SOMAKE, F.R.I.B.A.  
Staff Architect, Dolcis Shoe Co.

THIS new building replaces the original Coventry shop which was totally destroyed by enemy action in November 1940. The site developed by the company forms part of a larger site allocated by the City Corporation to the British Home Stores and is situated at the corner of The Precinct and Market Street South, with a frontage of 26ft to the former and 85ft to the latter. The design of the elevation to the Precinct was dictated by the Corporation to preserve the symmetry of the British Home Stores elevation, but more latitude for expression was allowed to the Market Street South elevation. The problem, therefore, was to make both elevations of both buildings a unity and yet to express their different ownership and function.

The building comprises ground and mezzanine floors used as the Dolcis shop with two floors of office



space above approached through a separate entrance and served by a staircase and lift. The canopy around the parapet of the building was an essential requirement of the City Corporation who stipulated its exact



*Man's Shop  
entrance and  
the elevation  
to Market  
Street South*

height, projection and finish. In order to express on elevation the two floors of the Dolcis shop, the canopy was pierced at intervals and the glass shopfront carried right through to its full height, protection to the public under being preserved by means of gaily coloured sun-blinds over the canopy.

The building is a steel-framed structure designed on an 11ft grid, this being the correct distance between chairs in a shoe shop. In order to obtain the maximum amount of display it was essential for the columns to be kept as slender as possible on the frontage and the frame-work was designed with pairs of stanchions one behind the other with only the rear-most stanchion rising the full height of the building, the front stanchion supporting the cantilevered canopy. By means of this construction it was possible to reduce the solids between the window displays to only 12in including concrete and marble casings. The floor construction is of reinforced concrete on ground and mezzanine floors, the first and second floors and roof being of precast Bison floor units manufactured to span 11ft. Panel walls are of 11in cavity brickwork faced with the standard facings used for the reconstruction of Coventry and artificial stone dressings. Practically the whole of the Market Street South elevation is of panel wall construction with bronze mullions and windows separated with dove grey vitrolite panels framed within a bold artificial stone surround. The breasts between windows have been backed with two thicknesses of aerated concrete blocks for insulation. The entrance at Market Street South has been placed at the end of a deep lobby flanked on either side with display windows, the RH window also displayed on to Market Street South. The theme of display windows



*Ladies' shop, first floor***Dolcis Shoe Shop***Man's shop, ground floor*

continues along the building line for the full length of the Market Street South elevation, pierced only by a second entrance from that side. All windows have been designed with open backs in order to enhance the impression of a complete open front on both ground and mezzanine floors.

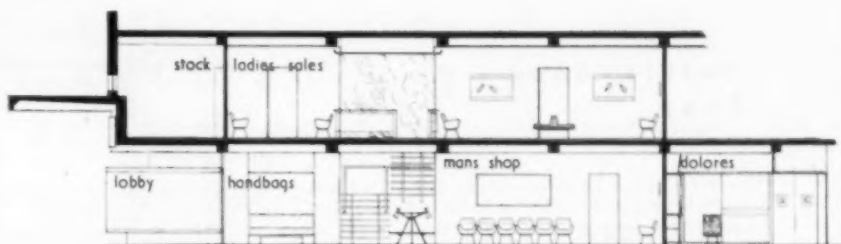
As is usual on a corner site, display occupies much space and the remainder of the area available for the shop was carefully allocated between reception staircase, sales space, stock areas and office entrance in order to obtain the maximum function in the limited space available. The entrance lobby in vitreous mosaic continues into the shop outlining the reception area and forming an apron through which rises the staircase. The remainder of the ground floor being used as the Man's Shop with its stock area. The Dolores Shop entered separately from the street inter-communicates with the shoe store via this stock area. The staircase has been designed to be as visually unobstructive as possible and is of light steel construction with mahogany treads, inlaid carpet pads and armour plate balustrading with polished mahogany handrails. A Rosso Levanto marble



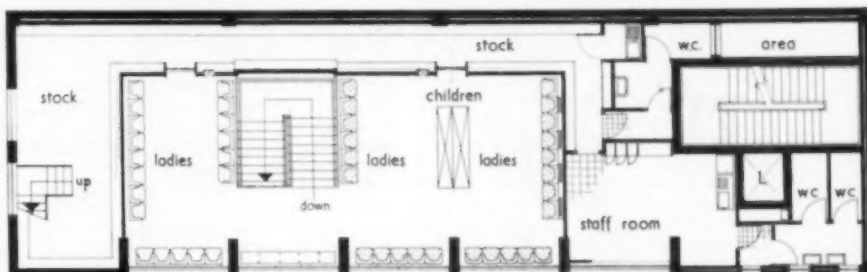
General Contractors:  
W. Moss & Sons, Ltd.

Sub-contractors:

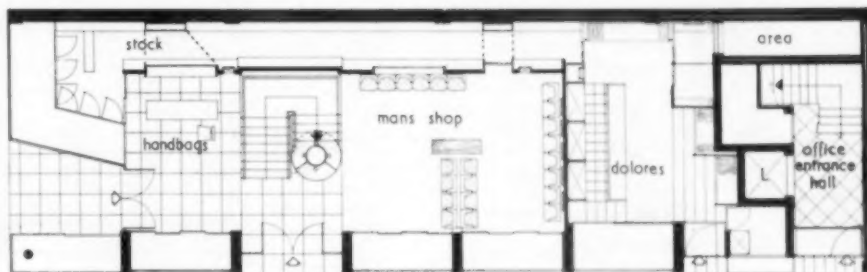
Artificial Stone:  
Kendalls Stone & Paving Co., Ltd.  
Asphalte Roofing:  
General Asphalte Co., Ltd.  
Blinds:  
Adams, Ltd.  
Carpets & Drapes:  
F. G. Minter (Decorations), Ltd.  
Chairs & Footstools:  
Hille, Ltd.  
Electrical Installation & Fittings:  
Courtney Pope (Electrical), Ltd.  
False Ceiling:  
Tomei, Ltd.  
Gas Installation:  
West Midland Gas Board.  
Heating & Ventilating:  
Rosser & Russell, Ltd.  
Ironmongery:  
Dennis Waring, Ltd.  
Lifts:  
Marryat & Scott, Ltd.  
Marble:  
Whiteheads, Ltd.  
Mosaic:  
Marriott & Price, Ltd.  
Paint:  
Thos. Parsons, Ltd.  
Screetone Paint Makers, Ltd.  
Plastic Lettering:  
Applied Lettering, Ltd.  
Plastic Wall Covering:  
Ryjack Productions, Ltd.  
James Williamson & Son, Ltd.  
Pneumatic Cash Tubes:  
Lambson Engineering Co., Ltd.  
Precast Floor Units:  
Concrete, Ltd.  
Sanitary Ware:  
Stutsons Sanitary Fittings, Ltd.  
Shopfitting:  
Courtney Pope, Ltd.  
Slates:  
Anslem Odling, Ltd.  
Staircase Balustrading:  
Grundy Arnatt, Ltd.  
Steelwork:  
Smith Walker, Ltd.  
Terrazzo:  
Marbello & Durus, Ltd.  
Tiling:  
Carter & Co. (London), Ltd.  
Vitrolite:  
Steeles, Ltd.  
Windows (Metal):  
Williams & Williams, Ltd.



SECTION



FIRST FLOOR



GROUND FLOOR  
SCALE: 1 in = 16 ft

panel rising from ground floor to mezzanine floor forms the background to the staircase and visually connects the two floors. To complete this visual connection a floating fibrous coffered plaster panel is suspended above the stairwell incorporating cold cathode lighting above and with decorative and colourful chrysaline fittings suspended below giving additional sparkle.

The main Ladies' Salon is on the mezzanine floor and is flanked along the whole of one side with windows from floor to ceiling overlooking Market Street South. The remaining three sides of the sales area comprise prefabricated partitions which have been faced with plastic coated fabric; beyond these are the stock racks. Screens and all other wall surfaces which are subjected to wear are finished in plastic coated fabric. Paint finishes have been restricted in use in order to reduce the subsequent cost of upkeep.

The office entrance at the Market Street South frontage has a Travertine terrazzo floor, the wall adjoining the lift and intake rooms being faced with Levanto marble. The other wall surfaces are faced with grey plastic coated fabric and the suspended ceiling is painted lemon

yellow. The floor finishes are Travertine on landings, quarry tiles in toilets and Semastic tiles to the offices.

The extract for the pneumatic cash tube system is situated at roof level with the other mechanical services including the lift motor, boiler, pumps and water tanks.

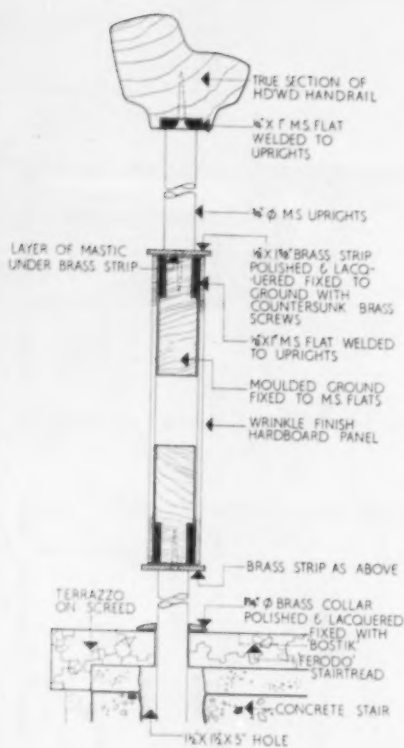
The system of heating is by means of a gas boiler serving a low pressure hot water pumped circulating system. Heating to the two showroom floors is supplied from five thermostatically controlled forced air convectors and the convector inlets and outlets are arranged so that the stock areas behind the sales spaces are ventilated by the convector fans.

The two office floors are heated on a single pipe radiator system whilst the stairways and lavatories have radiators served from a reversed two pipe system.

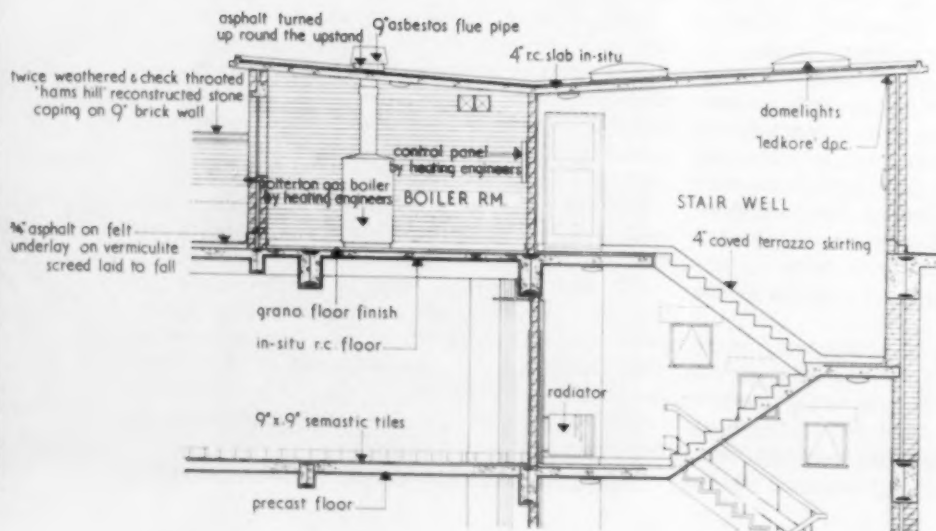
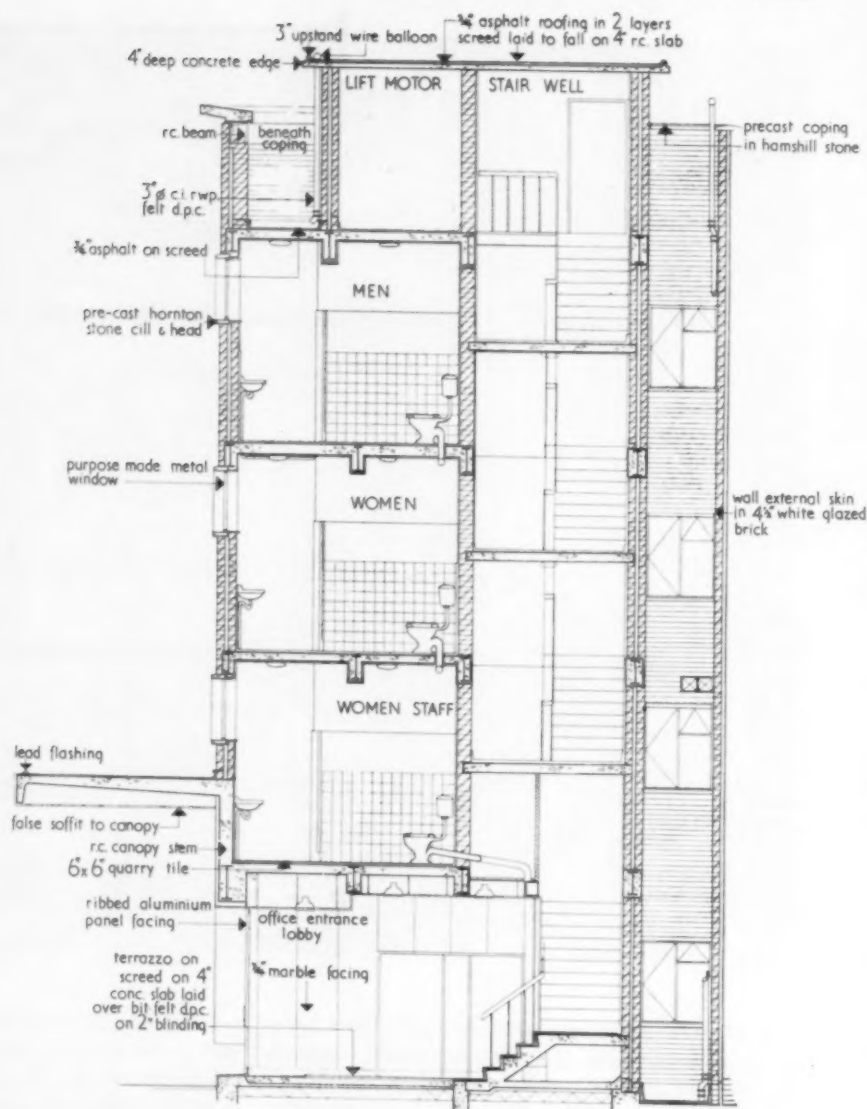
The roof located gas boiler is thermostatically and timeswitch controlled; and the flow temperature is compensated in accordance with the outside air temperature. Two circulating pumps are used and the changeover of duties can be effected by a single switch on the main control panel. Frost protection devices overriding the timeswitch have been incorporated.

details overleaf

# Dolcis Shoe Shop



Handrail detail  
Scale:  $\frac{1}{4}$  F.S.



Sections:  
Scale: 1 in = 8 ft

Assistant architect:  
G. H. Uffindell

Consulting engineers:  
C. E. Atkins  
& Partners

Quantity Surveyors:  
Harris & Porter

## THE LAW OF BUILDING CONTRACTS

## VII. Sub-contracts

BY GILES BEST

THE difficulties which may arise over sub-contracts stem chiefly from the failure to understand the relationship between the employer, the contractor, and the sub-contractor. The employer usually finds his convenience and his pocket best served by dealing direct with one firm of building contractors which then takes entire responsibility for the site. This main contract provides that the contractor is to enter into sub-contracts with certain specialist firms to be approved or nominated by the architect. It may also provide that the main contractor may, if he wishes, sub-let other work to be performed by other contractors. In addition the contractor may be bound to get his supplies from certain suppliers nominated by the architect. Thus there may be, in addition to the main contractor, several other firms connected with a particular building operation, whose employment by the main contractor has been at least sanctioned if not ordered by the employer or his architect. The architect may have power to supervise the work of these firms, to enter their workshops to approve work that is being done off the site, to test their materials, and finally to grant certificates that the work has been done to his satisfaction. Nevertheless in nearly all cases there is no direct contractual link between these firms and the employer. They are under contracts with the main contractor and not with the employer and only the main contractor is entitled to sue or be sued on these contracts.

The rule in English law is that no one who is not a party to a contract is entitled to sue on the contract. If Smith enters into a contract with Brown under which Brown is to pay Jones £100, Jones has no right to sue Brown if he fails to pay £100. The only contract is between Smith and Brown and the only person who can sue Brown for breach of contract is Smith. It is sometimes hard to explain this simple proposition to a sub-contractor whose work has been supervised and approved by the architect, but who is only entitled to look to the main contractor for payment. Indeed, in most cases the sub-contractor submits his tender and specifications to the architect and treats the architect's approval as meaning that he has been awarded the sub-contract. In fact no contract exists until the main contractor, following the architect's instructions, has entered into a sub-contract; though it must not be assumed that this is always the case. If the architect has failed to make it clear that the proposed work is a subsidiary part of a larger contract, and if he writes a letter in which he accepted the tender, then all the essentials are present of a valid

contract between the employer and the sub-contractor. Such a case would be unusual but not by any means impossible.

The R.I.B.A. standard form of contract contains several provisions to regulate the employment of sub-contractors. The first of these, clause 13A, prohibits the contractor from assigning or sub-letting the contract or any part of it without the architect's written consent. Clause 30 of the C.C.C./Wks/1 Government form contains a similar term. These prohibitory clauses restate what is in any case the general rule that the obligation to perform a contract cannot be assigned without the obligors consent. This is particularly the case where the performance of the contract requires the special ability or experience of the person who originally undertook the contract. But where the employer at the time the contract was made appeared unconcerned as to who was actually to carry out the work provided the builder was held responsible, the builder would be entitled to sub-let performance of part of the contract to another competent builder. In such a situation the builder would, of course, remain liable under the contract with the employer for the efficient performance of the contract works. The clauses referred to safeguard the employer, and since the consent of the architect to assignment or sub-letting is not to be unreasonably withheld, they cannot be said to be unduly restrictive.

The main clause affecting sub-contractors in the R.I.B.A. form is, of course, clause 21 which sets out the terms upon which prime cost and provisional sums in the tenders are to be carried out by sub-contractors. The architect is given power to nominate specialists and others whom the contractor is to employ to carry out this work. The contractor can refuse to employ any person to whom he objects on reasonable grounds or who refuses to enter into a contract containing certain specified provisions. One of these is that the nominated sub-contractor is to indemnify the contractor against the same obligations in the sub-contract as exist in the main contract; and another that the sub-contractor shall indemnify the contractor against claims arising out of the sub-contractor's negligence and insure himself against any such liability. The last two provisions are to give the architect the right of access to the sub-contractor's workshops and that payment is not to be due until the contractor has received from the architect a certificate of approval of the work. Thus if a sub-contractor refuses to enter into a sub-contract containing these terms the contractor is entitled to refuse to employ

him. But if both contractor and architect agree to the employment of a sub-contractor who refuses to enter into a sub-contract containing these terms the contractor may employ such a person. This latter proviso is designed to cover cases in which specialist sub-contractors desire to be paid and to be released from their contract as soon as possible after their work is complete.

Even where a sub-contractor has agreed to all the above conditions, under the R.I.B.A. contract the architect has a discretion to arrange that the sub-contractor shall be paid in full before the main contractor is entitled to a final certificate. This is obviously an advantage to the sub-contractor when the sub-contract work occupies an early place in a programme of works whose final completion and acceptance may be long delayed. On the other hand the main contractor's interests must be protected against any claim by the employer based on defects in the sub-contract work. The solution that is adopted in the R.I.B.A. contract is that the sub-contractor gives the main contractor an indemnity against any claim based on latent defects in the sub-contract work. The architect then issues a certificate to cover a final payment to the sub-contractors and the main contractor pays the sub-contractor in full.

If a contractor goes bankrupt or into liquidation the employer has, of course, the right to determine the contract. If he does so, he may under either the R.I.B.A. contract (Clause 19 (c) (2)) or the C.C.C./Wks/1 contract (Clause 46 (i) (c)) require the contractor to assign to him the benefit of any sub-contract or agreement for the supply of goods or services. This means that the employer, if he wishes to complete the works himself or with another contractor, can do so with the help of the sub-contractors and on the terms which they originally agreed. If this clause were not present the sub-contractors could be discharged from their sub-contracts by the main contractor's bankruptcy and the employer would have to negotiate fresh terms with them.

A well drawn sub-contract will bind the sub-contractor to observe and comply with all the provisions of the main contract in so far as they affect or concern the sub-contract works. This is obviously in the employer's interest, and equally it is in the sub-contractor's interest that the sub-contract should bind the main contractor to exercise all his rights under the main contract so far as they affect the sub-contract works. Thus in the R.I.B.A. form of sub-contract clause 12 the contractor binds himself to obtain for the sub-contractor those rights and bene-

fits of the main contract which affect the sub-contract works. In Clause 11 the contractor agrees to apply at the proper times for certificates for interim payments to include the cost of works executed under the sub-contract. In addition the contractor undertakes to make representations to the employer on behalf of the sub-contractor if desired, and if any dispute arises over the grant of a certificate, to allow the sub-contractor to sue the employer in the contractor's name, or as joint plaintiff with the sub-contractor.

When the architect grants a certificate which covers any of the sub-contract work the contractor is under a duty to notify the sub-contractor and pay him the proportion of the amount certified which is attributable to the sub-contract works. This sum is, of course, subject to retention fund deductions in the same manner as any payment to the main contractor or an interim certificate. The main contractor under the R.I.B.A. form of sub-contract is entitled to a cash discount of 2½ per cent if he pays the amount due to the sub-contractor within 14 days of the issue of the architect's certificate. It may be that the period within which the employer must honour certificates under

the main contract is more than 14 days and it is obviously in the contractor's interest to attempt to correct any discrepancy of this sort.

By inter-related contracts and conditions such as these it is possible for the employer to exercise a wide measure of control over the sub-contractors although he has no direct contractual link with them. It is always important, however, to remember that the sub-contractor's real employer is the main contractor and that he is the only person who may be sued on the sub-contract. The only way in which the employer can become directly liable to the sub-contractor is by taking over the sub-contract from the main contractor. The only other way in which the employer can become directly liable is if he or the architect orders from the sub-contractor work which is additional to and distinct from the rest of the sub-contract works. Then, of course, there is no sub-contract but an ordinary contract with the employer. The burden of proving that the order was not part of the sub-contract works would rest on the person alleging it, and it must be true to say that such a case would be exceptional.

the ceiling; the window panes are kept cold by the wind outside. Condensation will take place on these surfaces, first as a thin mist, not seen until wiped, later as beads of moisture which will run into drips. This condition will not arise if the window is kept open. The moist air will be cooled by the cold air entering but it will be so diluted that little condensation will take place.

If the bathroom be heated it will help, but it will not cure the trouble altogether, as the air becomes more and more saturated and as some surfaces will be colder than the air, so some moisture will condense. So ventilation is the most important factor.

If the window is opened only after the bathroom has been used, that may be enough to dry out the condensation. The bath and other surfaces which have become warm, will in time warm the air entering enough to enable it to take up some moisture before it passes out again.

For heating the bathroom, hot pipes are better than an electric heater as they will keep the surfaces sufficiently warm to prevent condensation until the air becomes very saturated. Electric heaters will only do this if they are turned on some time before the bath is used or, of course, kept on all the time. Special precautions must, of course, be taken to ensure that they are safe.

Why not put a permanent ventilator in the bathroom? This is in fact required if there is a w.c. there or in cases of certain gas heaters, but the normal permanent ventilator or air brick is uncontrollable and the client will soon ask for it to be sealed up, or in the case of tenants it will first be "bunged up" with paper. For even with only normal winds the amount of air which can blow in is considerable and it usually seems to descend like a cascade upon one's altogether too much exposed surfaces. Placing it low down does not help, as to be effective for letting out moist air it should be near the ceiling.

Controllable vents are sometimes effective. "Hit-and-miss" type can be got cord operated but they should be very large and therefore will be very unsightly. Some of the window will have to open anyhow, so it is usually best to use that, unless it is actually over the bath. It is possible, with a little ingenuity, to design wood casements with a false head so that a long ventilation slot is provided above, which can be controlled with a simple hinged flap. Of course an extraction-fan is ideal but a luxury.

Usually condensation in a bathroom is tolerated provided it dries out reasonably soon and does no harm. It will dry out soon if there is not too much of it and ventilation is provided.

## Condensation

THERE have been reports in the daily press of complaints of dampness in the new L.C.C. point block flats. They are being investigated and it is highly probable that they will be found to be due or partially due to condensation.

Condensation is a very simple natural phenomenon but the varied nature of the factors causing it and the various ways it shows itself tend to confuse the architect or surveyor, let alone the client. Beads of moisture on walls, pools of water on window sills, damp patches on the plaster alarm the client and his mind rushes to the idea that water is coming through somewhere and it is difficult to make him think otherwise.

There are two excellent B.R.S. Digests No. 23 Condensation Problems in Buildings, and No. 58 Wall and Ceiling Surfaces and Condensation, which cover the subject very thoroughly; but even with these it is easy to get bogged down on relative humidity, dew points, vapour barriers, etc., and all aspects including special industrial cases are covered, so some consideration of what actually happens in domestic cases might be useful.

Air will hold a certain amount of moisture, depending upon its temperature. Warm air can hold more than cold air. If warm air holding as much water as it can, i.e., high humidity, is cooled some of the water must con-

dense. If the hot air is cooled by a cold surface, the moisture will condense on that surface as droplets or beads of moisture, as when we breathe on the window, or it may be absorbed if the surface is absorbent.

What are the factors which will cause a high humidity? Anything which will put moisture into air that is confined. If the air is not confined, i.e., in a room with a good window open the moist air is continually diluted by fresh air entering and the hot air going out. Most common causes of high humidity are cooking, boiling particularly, much drawing of hot water, bathrooms and wash-house, gas apparatus that has not got a flue, i.e., gas radiators, storage heaters, etc., and of course human beings who exhale quite a lot of moisture.

### Condensation in Bathrooms

Let us consider the bathroom as perhaps the most familiar example. When someone wants a bath, if the room is not heated, the first thing they do is to shut the window. Then, in extravagant cases, they heat the bath by running in hot water and letting it out. The filling of the bath produces heat and water vapour. Most of the air in the room becomes heated and absorbs moisture until it becomes saturated. Many surfaces will not warm up as quickly as the air warms up, such as hard plaster on an external wall or on



It will do no harm to the better bathroom finishes, glazed tiles, hard gloss paint on plaster and on wood, but it will do harm to absorbent surfaces that can become saturated such as fibre-board, insulation board and soft wood surfaces which are not protected. Hard gloss paint is a fairly impervious finish for wall boards but it must form an impermeable skin all over the surface. If damp air can get through the joints behind fillets it will soak into the material behind the paint. Bathrooms in cheap wallboard-lined bungalows are usually a sorry sight with a rather irregular quilted effect on the walls and particularly on the ceiling, and nails not galvanized will rust and cause a stain which will come through the paint.

In certain cases condensation in a bathroom is so much that it is not tolerable. This is often the case where the room is very small. The volume of air is so small that it becomes saturated very soon. Ventilation is probably the only cure. Conditions can also be very bad where the room is very cold, where the surfaces are cold and take a long time to heat up. Stone walls with hard plastic finish for example, or concrete floors. In these cases the trouble is that any heat applied to the surface of the wall will not raise its temperature for some time as it is conducted away by the cold mass behind. This is commonly the case in converted bathrooms. Nine-inch brick walls, rendered in cement and sand inside to make sure of being weatherproof are finished with hard plaster to take gloss paint. These walls will stream with moisture on frequent occasions. Eleven-inch cavity walls are reasonably satisfactory with hard plaster finish, and plaster on clinker and lightweight blocks which are good insulators is better.

The ideal way would be to provide a surface which warms up very quickly, i.e., a surface of low thermal capacity, but it is difficult to know how best to do it. Sheeting materials such as insulating boards, fibreboards, are of this nature but may become saturated as mentioned. Plasterboard is of a higher thermal capacity, but is thin and so will heat up fairly soon if there is insulation such as an air space behind. But the gypsum plaster in it is affected by damp if any should get in, by a broken edge of sheet, or a hole for fixing not stopped.

Plaster on expanded metal lathing gives quite a hard finish which will heat up not too slowly and avoids the defects of sheet materials.

In a bathroom one tends to favour a solid finish not only to avoid the risk of water getting through somewhere but for backing for tiles and fixing for fittings, mirrors, spray brackets, etc., and some have been experimenting

with vermiculite plaster. To give any insulation of value, coats of  $\frac{1}{2}$  in and using a high proportion of vermiculite would seem to be necessary but floating and setting with vermiculite "sand" may give just that amount of extra insulation which will make the condensation tolerable. It is, of course, "dentable," a sharp blow with the knuckle will form a small depression, so it should not be used where it may be damaged, external angles, etc. Ordinary plaster would be satisfactory on a good insulating backing such as wood wool slabs, but this would not be very economical on ceilings.

#### Condensation on Concrete Floors

Condensation can be a serious problem on concrete ground floors whether in a bathroom or elsewhere. The ground below a concrete floor usually gives some insulation, so that where there is some background heating as in a kitchen, the slab will not be so cold as to cause condensation. Unheated bathrooms may be seriously affected, the moisture will collect under loose floor coverings where it cannot dry off. Lino will become rotten. Underlay will not help. Rugs will become saturated on occasions. The cure is either to have an impervious stuck-down floor or to insulate the slab. An insulating screed of 2 inches of clinker concrete finished with 1 inch of cement and sand screed would be satisfactory. Other lightweight screed would do, but all would need the 1 inch hard screed on top for wear and local loads, if sheeting like lino or rubber was to be used. If a harder finish was to be used, such as clay or plastic tiles, it might be permissible to lay them direct on the lightweight screed.

Condensation will still take place on top of impervious stuck-down floors such as asphalt or pitch-mastic, and proprietary *in situ* floors but it will do no harm. It may, however, be dangerous: asphalt floors with a fine dew on them are particularly slippery.

#### Gas Heaters

Condensation caused by gas heaters can be a serious problem, and the gas companies do not minimize the difficulty. As they say, "a cubic foot of gas produces a cubic foot of water vapour," which gives one quite a "steamy" picture. Where there is plenty of ventilation, such as in halls and rooms with fireplaces, there is usually no problem, but in workrooms, condensation can be serious, particularly owing to the lack of understanding of the way to use them. The normal procedure is for the first person in to shiver, shut the window, light the heater and try to get a fug up. He and

the heater are both producing vapour and very soon the walls will run with water if it is cold outside. With all these heaters there should be a small amount of ventilation all the time the heaters are on, and particularly when anyone is in the room, and they should be lit a little before the room is occupied so that any initial condensation can dry out.

As we become more draught-conscious and try to be more economical with fuel, we do things which make condensation more likely. We stop up gaps, fit draught strips, reduce the size of the flue in the chimney and generally reduce the ventilation to little above suffocation level, at the same time we try, or did try until recently, to get harder surfaces to floors, walls and ceilings, which usually meant colder surfaces.

#### Other Causes

Where condensation can be easily confused with damp penetration is that, where partial penetration has taken place, the wall will be colder and condensation will show. Where old stone walls have been plastered originally with lime plaster and patched in cement and sand and hard plaster finish, when the outer side of the wall gets very wet, the insulation is reduced and the cement-rendered patches will be cold enough to condense moisture in the room. It looks just like damp penetration: saturated wallpaper, plaster powdering round the patch, etc., all very confusing for the poor client. Better ventilation is the only sure cure.

Condensation on windows is usually unavoidable. Heating the glass is effective but expensive, and only justified for shops. On the Continent, where condensation or single glazing is accepted as inevitable, due to the extremes of temperature, condensation grooves are always formed on sills. Usually these are shallow depressions close to the sash. Sometimes they are drained by tubes through the sill, but they usually get blocked up by dirt or paint. In effect the groove merely retains the condensation and prevents it running over the window board (and making it useless for putting books and papers on), until it can evaporate, perhaps overnight. There is a good case for detailing condensation grooves on all but the cheapest windows.

Nothing has been said here about condensation within the thickness of a wall. This does not normally affect a traditionally constructed house, but is the big problem in curtain wall and multi-layer construction. Let's hear about some of the failures, they are about due now!

DENZIL NIELD

## LIBRARY NOTE

## New Homes for Old

Improvements and Conversions.  
H.M.S.O. 3s 6d.

**I**N the good old days we believed we could rebuild Britain. Slums would come tumbling down and glorious towers arise, crystal in the sunlight. (Contrasted, of course, with two-storey development, creating a rich urban pattern). The vision fades and instead the spread increased, the gaps are filled in and rehabilitation becomes a noble aim.

We can fly where we will, our instruments record the stratosphere, atomic power seems within grasp, we can see into utmost space, explore ocean depths, astronomy and microscopy range the extremes of size. And man, especially British man, appalled perhaps by these wonders, comes home—probably through a flood or a snow-drift—to his three-bedroom house made to suit or some similar home made out of the built legacy we suffer from but try to remould to our uses.

In the big towns we can hardly move in the streets, dirt from industry and the home blows in through ill-fitting windows, houses are warmed with ill-assorted collections of appliances, few enjoy the advantages of central heating and hot water. The whole conception of housing seems anomalous compared with the achievements of technology in other fields, perhaps less so when one considers the finance lavished, for example, on aircraft that now appear as megalomaniacal as Fonthill and not nearly so amusing. Industrialization of production might affect housing as glazed cladding seems likely to affect schools but for those without the strict statistical viewpoint there will always be conversions and alterations. Previous generations, fortunately, didn't build to the lower limits and their buildings always seem to have enough meat in them for alteration and changed use. It seems in their nature for buildings to be knocked around from the very day they are declared open and change is the only constant; here is a continuing problem.

As for houses; there have been some expensive books published recently, mostly directed to the owner-occupier, which have shown the conversion of stables, barns, oast houses, chapels, large residences and the like into flats or houses. This more modest book shows the process applied to housing of various scales, gives helpful advice on planning, on how to obtain an improvement grant and so on . . . the text, neatly divided into numbered paragraphs is supplemented by before-and-after plans and photographs.

It serves its purpose well enough, though one wouldn't want to sit down and read it, or even look at it for pleasure—for it is as dull as some of the examples shown, either before or after conversion. As it sets out to be only a handbook should one complain of this



Fig. 1



Fig. 2

Fig. 1. Squalor must be banished! (The 'thirties and 'forties) or—back view of the houses before improvement and (Fig. 2) one of the new back additions (The 'fifties).

reproduced from *New Homes for Old*

lack of imagination? I think, yes—for with imagination the simplest conversion can become a transforming element of environment: here, such change has been ignored and where the large scale issue has been touched upon (in the last chapter) how dreary it sounds—to quote.

"The environment can be improved by the Local Authority

"a. Integrating the redevelopment of slum areas with the improvement of privately owned and structurally sound houses in the same neighbourhood. . ."

Here there is a failure of vision, "rehabilitation" is not enough, surely "regeneration" is nearer to the process required. Such regeneration as the

L.C.C. has shown can be attempted on a large scale in their proposals for an area in Southwark or, as countless younger architects have shown, can be attained on a small scale in the conversion of individual buildings where imagination has seen the possibilities of space and form inherent in an old fabric and transformed it.

But to be fair, the objective is limited. Here is a useful booklet that will help "property owners, architects, builders and local authorities" and like Mr. Sandys (who introduces) "I hope it will inspire useful ideas for improvements and conversions and so make its contribution to the solution of this important aspect of our housing problem."

TREVOR DANNATT

# Information Digest

## OFFICIAL PUBLICATIONS

● **Trade Fairs Overseas.** H.M. Stationery Office. Price 1s. An increasing number of British firms are taking part in trade fairs overseas—and there is an even greater increase in the number of such opportunities becoming available. In an attempt to point out the pitfalls, to advise British firms on how to make the most of exhibiting overseas, and to set out the merits of some of the most notable trade fairs abroad, the Board of Trade has published a booklet for intending exhibitors.

Drawing on the experience of several British manufacturers who have successfully shown their goods abroad, it deals with such subjects as the choice of fair, methods of exhibiting, costs, publicity and public relations. It is illustrated with pictures of trade fairs in Paris, Cologne, Hanover, Milan and New York. Among the sample budgets printed (they include fares and everything but entertainment expenses) are those for small-scale participation at the Canadian International Trade Fair, 1954, for £650 inclusive, and for a more elaborate display at the Milan Samples Fair, 1954, costing over £3,000.

## PROFESSIONAL AND TRADE ASSOCIATIONS

● **Book List.** Issued by National Joint Council for the Building Industry, 11, Weymouth Street, London, W.1. Free.

This book list is intended to assist Joint Apprenticeship Committees in advising apprentices in their choice of suitable books on receipt of prizes and other occasions. The list of books has been approved by the National Joint Apprenticeship Board and includes most of the well-known volumes on building construction, building science and the more popular histories of architecture.

● **Report of Children's Playground Exhibition and Conference.** Issued by London and Greater London Playing Fields Association, 38, Dennison House, Vauxhall Bridge Road, London, S.W.1. Victoria 0656. Price 2s 6d.

This report of the conference on children's playgrounds which was held in June of 1954 can be obtained from the National Playing Fields Association, 71, Eccleston Square, S.W.1. It contains a full report of the exhibition and the conference which followed. It is well illustrated by a large number of excellent photographs, and gives full details of the various papers given at the conference and the discussion which followed. A useful publication for all architects con-

cerned with housing estates or similar projects where children's playgrounds form part of the building programme.

● **The National List of Merchants,** from the Distributors of Builders Supplies Joint Council, 11 Ironmonger Lane, London, E.C.2. Telephone: Monarch 3970. Price on application.

A new and revised edition of The National List of Merchants is now ready for distribution. The List is published in two parts to cover both the "Heavy" and the "Light" sections of the Builders Merchant Trade.

It is an authoritative list of Merchants compiled jointly by Building Industry Distributors and the Constituent Associations of the Council.

The List contains the names and addresses of bona fide Builders' Merchants, Plumbers' Merchants and Builders' Ironmongers in Great Britain and Northern Ireland. The Merchants whose names appear in the List are not necessarily members of a Trade Association, but all qualify for inclusion in the List on the basis of agreed standards of trading capacity and service including stock-holding qualifications, etc.

● **New Warmth for Old Schools.** Coal Utilization Council, 3 Upper Belgrave Street, London, S.W.1. Telephone: Sloane 9116. Free.

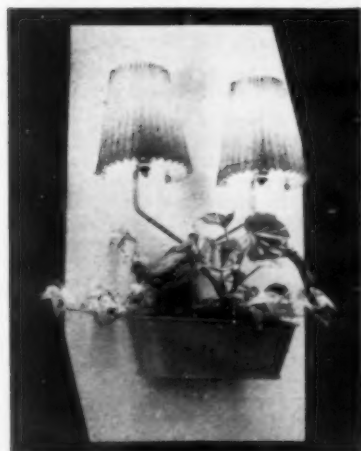
With the object of helping to solve the problem of providing efficient and economical heating in old schools, the Coal Utilization Council has prepared a booklet, "New Warmth for Old Schools." In the booklet the Council asserts that to-day, although teaching methods and child-care have been brought up to date, many country schoolrooms are still warmed by old fires that waste fuel, create dirt and heat very inefficiently.

Well illustrated, the booklet cites cases of schools wherein an old-fashioned open fire grate, suitable for warming a small bedroom, as the sole form of heating for a classroom of 4,200 cubic feet—"a quite impossible task"—and others in which open grates attempt similar feats in rooms of 6,800 cubic feet and 11,200 cubic feet.

The booklet will be distributed free to directors of education throughout Great Britain, architects of education authorities, church education authorities, and headmasters of preparatory schools.

● **Factory Gardens.** Published by the Industrial Welfare Society, Robert Hyde House, 42, Bryanston Square, London, W.1. Price 2s 6d.

The Industrial Welfare Society has just published a new



Siemens Electric Lamps and Supplies Limited announce the release of a completely new range of lighting fittings that combine two of the most popular vagues of the day—contemporary lighting and indoor sub-tropical plant culture. An important feature behind the design of "Pleurite" fittings is the use of the basic principle of plant irradiation or "life through light": the electric lamp is capable of producing chlorophyll in the leaves of plants and of promoting growth.

Left: "Chelsea." Centre: "Solar." Right: "Mexicana."



## Information Digest (continued)

booklet, *Factory Gardens*, by Lord Verulam and Mr. G. P. Youngman. In an introduction, Mr. John Marsh, the Director of the I.W.S. points out that the subject is treated in a practical down to earth fashion. Lord Verulam is Chairman of Enfield Rolling Mills, Ltd., and is well known as a crusader for the improvement of the place of work. He has recently been elected to the Council of the I.W.S. Mr. Youngman is a practising landscape architect with considerable industrial experience. The double page plan in the centre of the book shows Mr. Youngman's layout of part of the Enfield Cables, Ltd., site at Brimsdown, Middlesex. Another plan shows tree planting at the Fluidrive Engineering Co., Ltd., site at Bracknell, Berks. There are useful appendices showing varieties of shrubs and trees suitable for planting where top soil is scarce, and where the atmosphere is smoky. The question "Is it worth it?" is answered by Lord Verulam at the end of the booklet. Anyone who reads this short, informative work will readily agree that the answer is yes.

## TRADE PUBLICATIONS

● *Polylina*, by Polycell Products Ltd., 73 Highgate Road, N.W.5.

*Polylina* is a fibrous cellulose material that, in one-coat application, sizes and conditions wall and ceiling surfaces for paperhanging. When dry it forms a fibrous, paper-like film, unaffected by damp or vermin, which fills up hair cracks and lines, bridges, small ridges or irregularities, and makes an insulating barrier against water stains, smoke stains, dyes from old paper and similar impurities harmful to new paper.

● *A Guide to the Use of Asbestolux in Curtain Wall Construction*. The Cape Asbestos Co. Ltd., 114-116 Park Street, W.1. Telephone: Grosvenor 6022.

These notes are designed to assist all engaged, and interested, in curtain wall construction. It also includes some notes on ceilings using the "Bridgespan" sheets. The illustration is of the firm's stand at the recent Building Trades Exhibition at Manchester.

● *The Sliding Door*, a film by E. Hill Aldam & Co. Ltd., of Britannic Works, Haslemere Avenue, S.W.18. Telephone: Wimbledon 8080.

The film is a 16mm colour/sound production of approximately 40 minutes duration. It was produced by E. Hill Aldam & Co., Ltd., and edited by Messrs. Gateway Film Productions, Ltd., who are under the control of W. Hugh Baddeley, A.R.P.S., M.B.K.S. The sound commentary is by Frank Phillips.

Whilst a considerable part of the film is shot in England



A still from the E. Hill Aldam film

and shows typical examples of English Architecture and Sliding Doors, also shown are views of installations in Rhodesia, South Africa, Copenhagen, Jamaica, Hong Kong, Singapore and India. An attempt has been made to make the film rather more interesting than technical. The fact that the film was also photographed, in the main, by two members of the Hill Aldam family is made all the more remarkable by its high professional standard.

● *This Way Forward*. Issued by Sir Lindsey Parkinson & Co. Ltd., Lindsey House, 171, Shaftesbury Avenue, W.C.2. Temple Bar 6031.

Another well-produced "prestige" publication by a well-known firm of civil engineering and building contractors to commemorate the first 75 years of the history of the company. The book is lavishly produced, gives details of the company's activities over the 75 years of its existence, includes photographs of some of its most important works and lists in detail the buildings and their value which have been built by Sir Lindsey Parkinson and Company.

● *Specification Handbook*. Issued by Tretol Ltd., Tretol House, The Hyde, London, N.W.9. Colindale 7223. Free.

Mortar plasticisers are the subject of the new specification sheet issued by Tretol, Ltd., for insertion in their *Specification Handbook*. This Handbook is a useful and comprehensive guide to the practical aspects of building protection and maintenance in relation to the products of the Tretol Company, which include waterproofing, dustproofing and hardening materials for concrete, roof treatments and painting of metal and building surfaces.

● *The Heat Barrier*. Issued by the Bowater Organization, Bowater House, Stratton Street, London, W.1. Free.

Many older industrial buildings and some new ones take little account of the loss of heat through uninsulated walls and roofs. This booklet provides full details of the application of the Lloyd Fibre Boards for insulating purposes, and describes the various systems of the suspension and fixing, using clear diagrams and good photographs of completed work. A section of the publication is devoted to the calculation of heat savings, together with examples of actual buildings. Details are also given of how insulating linings in a building perform their task, and how the Bowater organization can be of assistance to both architects and building owners. A well-produced and useful publication.

[Continued on page 545]





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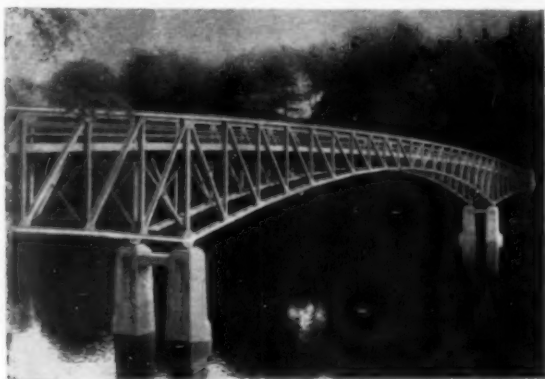
## Information Digest (continued)

- **Panel and Column Radiators.** Two new folders from Gulf Radiators Ltd., 229 Regent Street, W.1. Telephone: Regent 1051.

Gulf Radiators, Ltd., have produced two new "at-a-glance" dimensions folders for their Panel and Column Radiators. They are designed to assist with heating plans and to give, on one page, all the information necessary for rapid calculations. A table gives the various lengths of radiators in inches, and the number of sections and heating surface in square feet for double and single Panel Radiators of 18, 24 and 30 inches height, and of two-, three- and five-column Radiators. Also given is information about Transmission Factors a square foot per 100 degrees F temperature difference, Water Content per square foot, Weight per square foot, Tappings and Tests, and instructions about Radiator Brackets, Accessories and Fixing.

- **Space Heating by Tempaflex.** Flexine Ltd., 108 Victoria Street, S.W.1. Telephone: Victoria 2006. Free.

A well-produced book with an open-flat binding, describing the Tempaflex system. It shows the main dimensions and performance of twenty-four variations, ranging from an output of 24,500 B.T.U. to 70,000 B.T.U. The range includes both concealed and free-standing models with alternative methods of installation.



The Clunie Bridge, an aluminium structure designed by Sir Alexander Gibb and Partners and built for the North of Scotland Hydro-Electric Board by P. & W. MacLellan Ltd. This picture is an illustration in "The Aluminium Courier" which is published by the Aluminium Development Association.

- **Sunway Venetian Blinds.** Venetian Vogue Ltd., 408 Montrose Avenue, Slough, Bucks. Telephone: Slough 24595.

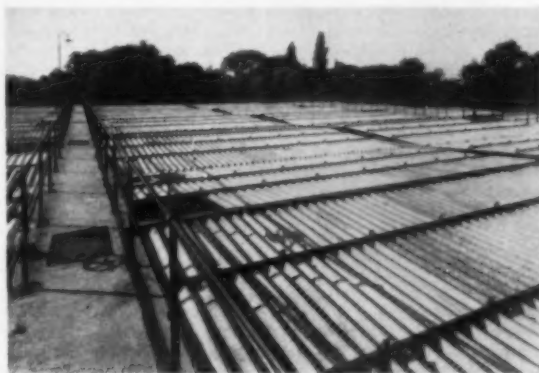
Two illustrated folders, in colour, depicting four types of aluminium slotted venetian blinds with plastic ladder-webs. Apart from the standard type the variations are the Skylight Blind, the Sunway Minor, which has half-size slats, and a two-way blind which can be lowered from the top as well as the normal raising from the bottom. Slats are stove enamelled in a range of colours and webs are available to match.

- **"Portable Power Tools in the Building Industry,"** a film produced for Wolf Electric Tools Ltd., Pioneer Works, Manger Lane, W.5. Telephone: Perivale 5631.

The main purpose of the film is to assist the Building Industry to increase output, lower building costs, eliminate unnecessary manual effort and in general to put more power at the builder's elbow—by the wider and more effective application of portable electric tools.

The film shows how these advantages can benefit employers and employees alike. The questions of power on the site and routine maintenance are briefly dealt with. Production of the film was embarked upon after consultation with the Management of the L.C.C. Brixton School of Building.

Facilities will be available for Technical Colleges and Educational Authorities throughout the country. The film will be distributed also through Film Libraries. The film was devised and written by a staff member of Wolf Electric Tools and produced by United Motion Pictures, Ltd.



Part of the layout of the new upward flow sedimentation plant at the South-West Suburban Water Co. at Staines, Middlesex, which has been in operation for seven months. Designed for a new chemical treatment of water, it cost £90,796, and will deal with  $9\frac{1}{2}$  million gallons a day.

- **Fend.** Amalgamated Paints (London) Ltd., St. Marks Road, Mitcham, Surrey. Telephone: Mitcham 1101. Free.

An entirely new product, called Fend, which, when applied to wallpaper or distemper, both protects it from oil, grease or dirt, and allows the surface to be cleaned. This material will be of great assistance in the decoration and maintenance of housing estates, hotels, restaurants, cinemas, shops and offices.

- **Directory of Manufacturers of Lighting Equipment.** Published by the Illuminating Engineering Publishing Co. Ltd., 32, Victoria Street, S.W.1. Price 1s 6d.

This is a directory listing the names, addresses, trade names and products of 250 firms who manufacture lighting equipment. The products listed include all types of electric lamps, luminaires, accessories and equipment.



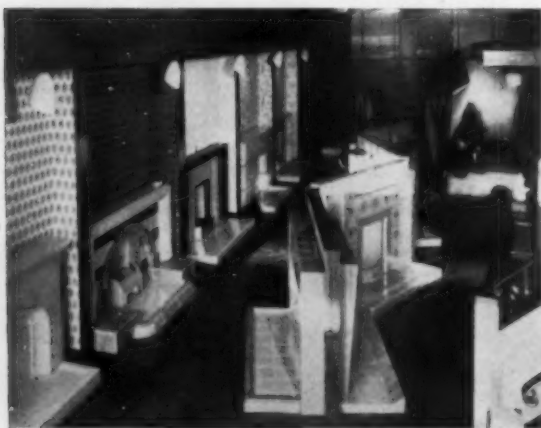
The demonstration and preparation kitchen in the Houghall School of Agriculture, Durham. The metal kitchen cabinets and fittings are by Ezee Kitchens Ltd., the layouts incorporate electric, gas and oil cookers and the work bench desks are fitted with castors so that they can be pushed together to form large blocks when necessary.

## Information Digest (continued)

● **A Swan Sings.** Issued by P. E. Gane Ltd., of Bristol. Price 5s. It is one of the tragedies of the present age that many of the fine old firms with a great tradition of craftsmanship and good design are gradually disappearing due to circumstances over which they have no control. It is, therefore, with regret that one notes that the House of Gane of Bristol has now ceased to exist owing to the fact that their showrooms were completely destroyed in November, 1940, during an air raid on the centre of Bristol. Later their workshops and warehouses suffered the same fate. The Directors of the firm have now decided to go out of business and this publication is in fact their "swan song." It gives a brief history of the foundation and development of the firm and shows some of the typical examples of their work during the long activity from 1824 to 1954. They have always been leaders in the production of high quality furniture and have been responsible for commissioning many famous designers such as C. F. A. Voysey, J. P. Nully, Wells Coates and Marcel Breuer. In keeping with the tradition of the Company the shares held by the members of the Phillip Endres Gane family have been formed into charitable and educational trust. Although it is not determined yet how the trust funds will be used, it is intended that at least one object will be the propagation of the principles of design and craftsmanship by which the house of Gane can be remembered. The proceeds of the sale of this little book go toward the Gane Trust, and it is hoped that many architects and designers will buy a copy, not only for the pleasure of retaining this record of a noble enterprise but also to assist the work of the Trust.

● **Primosorb Primer and Speed Leylac-Enamel** from Leyland Paint & Varnish Co. Ltd., Leyland, Lancashire. Telephone: 81481.

Two new leaflets describing a primer produced specially for absorbent surfaces and in particular for absorbent building boards; and an easy-working enamel for interior and exterior use with a greater speed of drying.



The new showrooms of Edward Marshall Ltd. at 167/8 Tottenham Court Road, W.1, are now the West End Showrooms of the Norland Service (Builders Merchants) Ltd. Designer: F. R. Wray, M.B.E., F.I.B.D.

## MISCELLANEOUS

● **Nine Abstract Artists.** Published by Alec Tiranti Ltd., 72, Charlotte Street, W.1. Price 7s 6d.

This is the third volume in the Contemporary Art series published by Tiranti and describes the work of nine abstract artists and the theories behind their work. The artists include Robert Adams, Terry Frost, Adrian Heath, Anthony Hill, Roger Hilton, Kenneth Martin, Mary Martin, Victor Passmore and William Scott. The booklet which is written by Lawrence Alloway, is well illustrated and gives a clear picture of the work and theories of the artists concerned. It is, however, always difficult to illustrate abstract art by means

of black and white photographs and much of the illustrated material loses a great deal of its quality and substance because of the limitation of the illustrations to half tone photographs.



Enquiry desk in the new showrooms of A. J. Wares Ltd., Newcastle-on-Tyne. Architects: T. A. Page, Son & Hill.

● **Houses, Interiors, Project.** By Harry Seidler. Published by Associated General Publications Ltd., Sidney, Australia. Price unstated.

This beautifully produced book illustrates the work to date of Harry Seidler, an architect practising in Australia but originally from Vienna. He studied architecture at Cambridge, England, and later studied under Gropius and worked with Breuer in New York, and Niemeyer in Rio. He started in private practice in 1948, and judging by the illustrations and descriptions in the book, has carried out a considerable amount of contemporary work of a very high order. The drawings, photographs and descriptions are very carefully considered, the layout of the book is extremely good and the whole publication gives a very fine picture of the work of one office. It is always interesting to see these collections of architectural work of individual architects from other countries and it would be valuable if some enterprising publisher in Great Britain could be encouraged to do the same sort of thing to some of the better known contemporary designers in this country. If Mr. Seidler deserves a book to himself after six years of architectural practice in Australia, it is surely about time that we had a book on Maxwell Fry, Wells Coates or Tecton.

## ALSO RECEIVED

- **The Dilemma of the Painter and Conservator in the Synthetic Age.** By Gluck. A paper read at the Museums Association Conference at Edinburgh, July 21, 1954.
- **Aero Research Technical Notes—Static Tests and Fatigue Tests on Redux-Boned Built-up and solid light alloy spar booms.** Issued by the Technical Service Department, Aero Research Limited, Duxford, Cambridge. Sawston 187.
- **The Impact of People, Their Way of Life and Thought on Municipal Engineering.** Presidential Address delivered by S. S. Morris, City Engineer of Cape Town, to the 33rd Annual Conference held in Durban, South Africa, on Monday, August 2, 1954.
- **Underneath the Basins.** Conex-Terna Ltd., Conex Works, Whitehall Road, Great Bridge, Tipton, Staffs. Telephone: Tipton 1162. Free.
- **The Smokelim Fire Door.** Maclelland & Co. Ltd., 97-99 Praed Street, London, W.2. Telephone: Paddington 0673. Free.
- **Burcol Asphaltic Waterproofer.** Burtain Ltd., 16 Sheldon Street, W.2. Telephone: Paddington 1075.
- **C.M.A. Rubber and Thermoplastic Insulated Cables.** Enfield Cables, Ltd., Victoria House, W.C.1. Telephone: Holborn 9292. Free.
- **1955 Mazda Lamp Catalogue.** The British Thomson-Houston Co. Ltd., Crown House, Aldwych, W.C.2. Telephone: Langham 7056.



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#### CAMBRIDGE

24 St. Andrew's Street (CAMBRIDGE 55274)

#### CARDIFF

9 Castle Street (CARDIFF 28266)

#### GLASGOW

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"Make your House Cosier in Winter" (INSULATION BOOKLET)

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"Architectural Design Data"  
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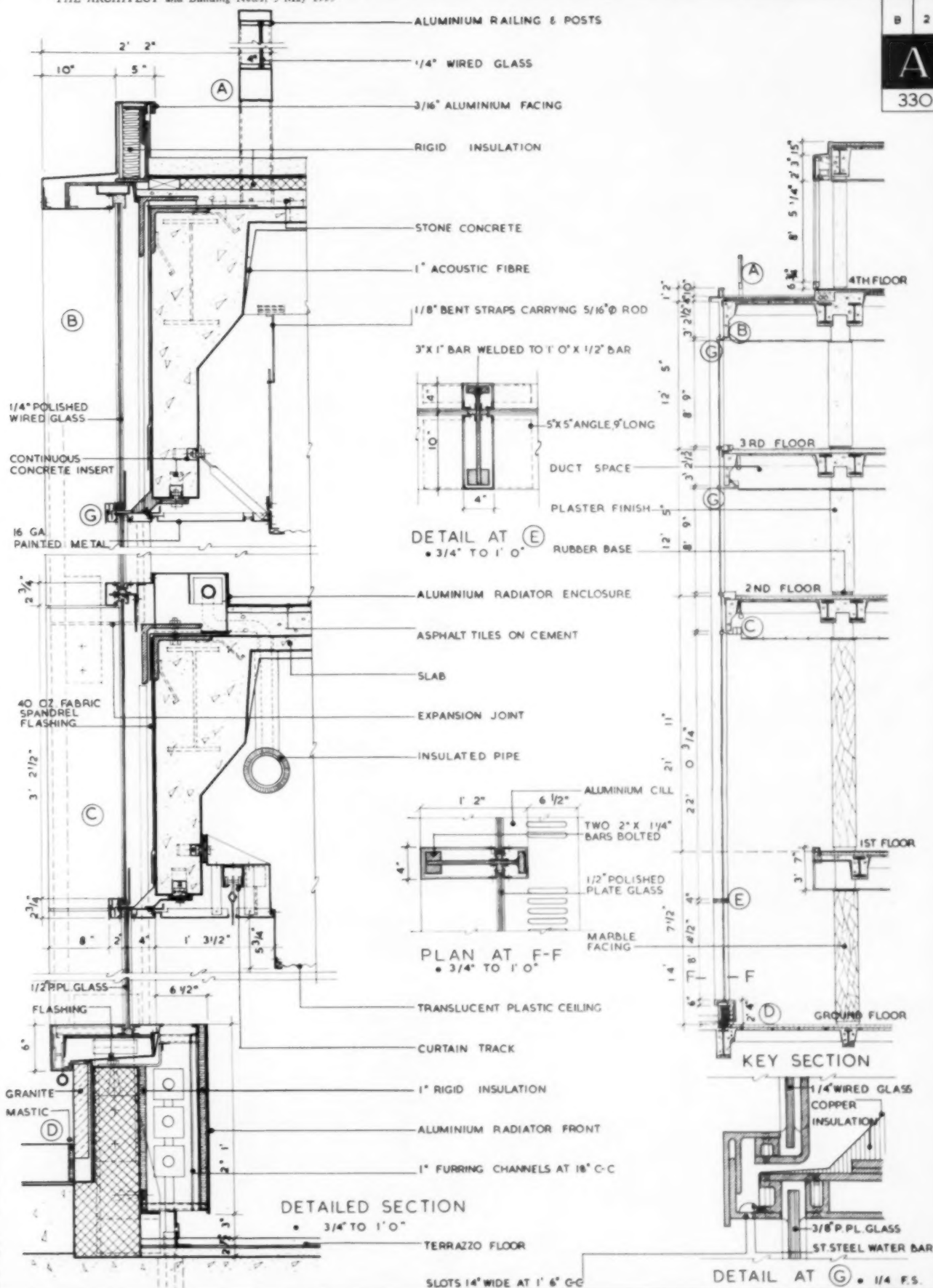
'It's no good them coming grouching to me,' glowers Bert, 'radiators are full on (or nearly), and the Guvnor's always bitin' my 'ead off about the fuel bills.'



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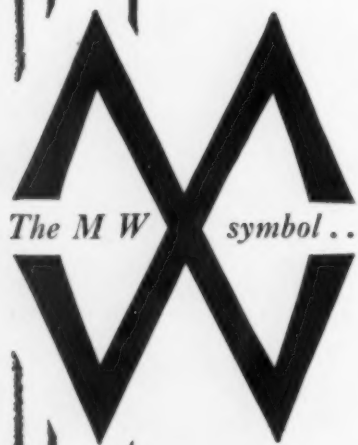
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## CONTRACT • NEWS •

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**ALTON R.C.** (a) 24 dwellings with ancillary services, Church Field, Headley. (b) Council's Engineer, Council Offices, Barton End. (c) 3gns. (e) June 1.

**BARNESLEY B.C.** (a) 4 blocks of shops and flats, Athersley North Estate. (b) Borough Engineer, Town Hall. (c) 2gns. (e) May 25.

**BEDFORD B.C.** (a) Alterations and additions to the waterworks stores and workshops, Gadsby Street. (b) F. W. Dawkes, Newnham House, Horne Lane. (c) 3gns. (d) May 9.

**BEDFORD B.C.** (a) Block of 4 houses in Vicars Walk and block of 10 bungalows in Queen's Drive, Putnoe Estate. (b) F. W. Dawkes, Newnham House, Horne Lane. (c) 3gns. (d) May 9.

**BROMSGROVE U.C.** (a) 5 bungalows, Chadwich Estate, Rubery. (b) Council's Engineer, Council House. (c) 3gns. (e) May 28.

**CARDIFF R.C.** (a) Block of 4 flats, and blocks of 4 flats and 4 shops, Fontygary Road, Rhosce. (b) Council's Clerk, 20, Park Place. (c) 10gns. (d) May 26. (e) June 27.

**CRICKLADE AND WOOTTON BASSETT R.C.** (a) 8 houses and 6 bungalows at Shepherd's Breach, Wootton Bassett. (b) Council's Engineer, Manor House, Wootton Bassett, Near Swindon. (d) May 14.

**CRICKLADE AND WOOTTON BASSETT R.C.** (a) 12 garages at the Rosary, Wootton Bassett. (b) J. C. Grindley, Manor House, Wootton Bassett, Near Swindon. (c) 2gns. (e) May 23.

**CROYDON B.C.** (a) Altering and renovating the former Masonic Homes, Freemasons Road, for use as an old people's home. (b) Borough Engineer, Town Hall.

**DORKING AND HORLEY R.C.** (a) Erection of Council Offices at Dorking. (b) Council's Engineer, P.O. Box No. 9, Council Offices, Massetts Road, Horley. (c) 5gns. (e) May 23.

**DURHAM C.C.** (a) Erection of dining and general purposes room, canteen scullery, etc., at Birtley Elizabethville school, and toilet accommodation, etc., at Ingleton C.E. school. (b) County Architect, Court Lane. (d) May 7.

**EASTBOURNE B.C.** (a) (1) erection of a hall at Langney Village, and (2) conversion of No. 40, Pevensey Road, into flats. (b) Borough Surveyor, 2, Saffrons Road. (c) 2gns each contract, cheque payable to Corporation. (d) May 10. (e) (1) May 23; (2) July 6.

**EASTBOURNE CORPORATION.** (a) Conversion of 49, Pevensey Road, into flats. (b) Borough Surveyor, 2, Saffrons Road. (c) 2gns. (d) May 10. (e) July 6.

address it is the same as the locality given in the heading. (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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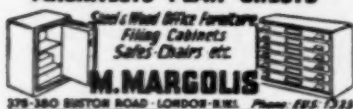
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**ESSEX C.C.** (a) Erection of Theydon Bois County Primary School. (b) County Architect, County Hall, Chelmsford. (d) May 7. Approx. cost £45,000.

**GOSFORTH U.C.** (a) 12 houses in 1 block, Lambert Square. (b) Council's Surveyor, Council Offices, High Street. (c) June 1.

**HECKMONDWIKE U.C.** (a) Contract No. 13. 10 bungalows, Dale Lane Estate. (b) Council's Engineer, County Offices, Oldfield Lane. (c) 2gns. (e) May 27.

**HEMEL HEMPSTEAD B.C.** (a) 27 dwellings and 12 garages, Highfield Neighbourhood. (b) Borough Engineer, Market Square. (c) June 9.

**HUNTINGDON R.C.** (a) 12 garages and the construction of approach road, Brampton. (b) Messrs. Lea, Milner and Wardley, 4, Market Hill. (c) 2gns. (e) May 18.

**HUNTS C.C.** (a) 2 pairs of bungalows at Warners Farm, Somersham. (b) County Land Agent, Walden House, Huntingdon. (c) 2gns. (e) May 13.

**LEICESTER C.C.** (a) Minor alterations and maintenance works at (1) West Haven County Home, Market Bosworth; (2) Hastings House County Home, Loughborough; (3) Knighton House County Home, Leicester. (b) County Architect, 123, London Road. (c) 2gns. (e) May 13.

**LONDON—WIMBLEDON B.C.** (a) 6 garages in 2 blocks, West Side Estate, S.W.19. (b) Borough Engineer, Town Hall, S.W.19. (c) 2gns. (d) May 11.

**LONG EATON C.C.** (a) 2 houses, Wiltshire Road. (b) Francis Turner, Town Hall. (c) May 31.

**LUTON B.C.** (a) Erection of (1) block of 4 shops with flats over at Yeovil Road, Ashcroft Road Estate, and (2) 4 dwellings in 1 block at Yeovil Road, Ashcroft Road Estate. (b) Borough Engineer, Town Hall. (c) 2gns each contract. (e) May 16.

**MANSFIELD B.C.** (a) Contract No. 26/E. 42 houses, Ladybrook Estate. (b) Borough Engineer, Carr Bank. (c) 2gns. (e) May 24.

**NEW FOREST R.C.** (a) Erection of 1 pair of houses, 5 blocks of 4 houses, and 1 block of 6 houses, Salisbury Road, Totton. (b) Council's Engineer, Council Offices, Lyndhurst, Hants. (c) 2gns. (e) May 18.

**N. IRELAND—BELFAST C.C.** (a) Erection of an intermediate school at Dunlambert, Fortwilliam Park. (b) Education Architect, 40, Academy Street. (c) £5. (e) June 2.

**N. IRELAND—BELFAST C.C.** (a) Extensions to Grosvenor High School, Roden Street, to form an intermediate school; (1) separate contract for pile foundations and reinforced concrete basement, and (2) separate concrete for the erection of superstructure in traditional construction with steel frame. (b) Education Architect's Department, 40, Academy Street. (c) £2 for (1) and £5 for (2). (e) June 2.

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**N. IRELAND—DOWN COUNTY E.C.** (a) Erection and completion of a county intermediate school, Dundonald. (b) Messrs. Harris and Partner, 1, Queen Street, Belfast. (c) £5. (e) May 19.

**N. IRELAND—DOWN COUNTY HEALTH COMMITTEE.** (a) Erection of a health clinic and divisional offices with the necessary site works at (1) Downpatrick and (2) Newry. (b) County Planning Officer, Courthouse, Downpatrick, or Messrs. McCarthy and Lilburn, 47, Scottish Provident Buildings, Belfast. (c) 5gns. (e) May 19.

**N. IRELAND—NORTHERN IRELAND HOSPITALS AUTHORITY.** (a) Adaptations to Corry's Buildings, Belfast City Hospital, to provide additional laboratory accommodation. (b) C. R. M. Wood, 40, Victoria Square, Belfast. (c) 3gns. (e) May 23.

**NORTHFLEET U.C.** (a) 60 houses, Painters Ash Estate. (b) Council's Engineer, Council Offices. (c) 2gns. (e) May 26.

**PORTSMOUTH C.C.** (a) (1) 92 houses at Bedhampton Camp South, and (2) 16 flats and maisonettes at St. George's Square. (b) City Architect, 1, Western Parade. (c) £1 each contract. (d) May 16.

**SALFORD C.C.** (a) Erection of a branch library, Stott Lane, Salford, 6. (b) City Engineer, Town Hall. (c) 2gns. (e) May 23.

**SALISBURY AND WILTON R.C.** (a) 10 houses together with site works, Steeple Langford. (b) Council's Clerk, Council Offices, 26, Endless Street, Salisbury. (c) 2gns.

**SHARDLOW R.C.** (a) Erection of houses and the construction of roads, sewers and services in connection with the Council's building programme during 1955. (b) Council's Clerk, Shardlow R.D.C., 4, Full Street, Derby.

**SHREWSBURY B.C.** (a) Erection of (1) 54 houses and 2 bungalows at Crowmoor, and (2) 74 houses and 6 bungalows at Judith Butts Gardens. (b) Borough Surveyor, Guildhall. (c) 2gns. (e) May 23.

**STAINES U.C.** (a) Block of 14 flats, Kingston Road site, Laleham, Middlesex. (b) Council's Engineer, 240, London Road. (c) 2gns. (e) May 25.

**THORNBURY R.C.** (a) 12 dwellings, Oakfield Way, Sharpness. (b) Messrs. Rainger, Rogers and Smithson, 29, Rodney Road, Cheltenham, Glos. (c) 2gns. (d) May 7.

**TRENT RIVER BOARD.** (a) Erection of a house and office at Calverton. (b) Board's Clerk, Trent River Board, P.O. Box No. 74, 206, Derby Road, Nottingham. (c) £2. (d) May 14. (e) May 28.

**TRURO C.C.** (a) 12 flats at The Leats. (b) City Engineer, Municipal Buildings. (c) 2gns. (e) May 16.

**TYNEMOUTH B.C.** (a) Erection of 4 flats at Gallant Terrace, 2 flats at Wall-send Road, 4 flats and 4 maisonettes at Addison Street, 2 flats and 2 flats at West Percy Street, North Shields. (b) Borough Surveyor, 16, Northumberland Square, North Shields. (c) 1gn. (e) May 16.



**WATFORD R.C.** (a) 28 dwellings, including a block of 12 flats, Abbots Langley. (b) Messrs. Dawe, Carter and Partners, 33, Clarendon Road, Watford. (c) 1gn.

**WEST PENWITH R.C.** (a) Erection of 6 houses, St. Buryan (Parc-an-Cady Estate). (b) F. Hartley, 38, Chapel Street, Penzance. (c) May 19.

**WETHERBY R.C.** (a) Erection of (1) 34 houses in 4 groups of 6, 10, 8 and 10 on the Hallfield Estate, Wetherby; (2) 2 houses in 1 group at Bramham; (3) 6 houses in 1 group at East Keswick; (4) 4 houses in 1 group at Long Marston; (5) 4 houses in 1 group at Sicklinghall; and (6) 6 houses in 1 group at Thorp Arch. (b) Messrs. Needham, Thorp and White, 6, High Petergate, York. (c) May 16.

### PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

**PLYMOUTH CORPORATION.** (1) Reinstatement works. (2) Stoke Military Hospital. (3) A. N. Coles (Contractors), Ltd., Sutton Road, Plymouth. (4) £89,273.

**LONDON, E.C.** (1) Offices, etc., for Worshipful Company of Vintners. (2) Queen Street, E.C.4. (3) Ford and Walton, Ltd., 3, Buckingham Palace Gardens, S.W.1. (4) £73,000.



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**BARKING B.C.** (1) 70 houses, 28 flats. (2) Thames View Estate. (3) Carlton Contractors, Ltd., 15, Lingfield Crescent, London, S.E.9. (4) £136,063.

**HARLOW DEVELOPMENT CORPORATION.** (1) Dwellings and garages. (2) Canons Brook. (3) Geo. Wimpey and Co., Ltd., Hammersmith, W.6. (4) £200,715.

**LONDON, S.E.** (1) Erection of large printing works, offices, etc., for Whitehead Morris, Ltd. (2) Bankside, Southwark. (3) G. E. Wallis and Sons, Ltd., 231, Strand, London, W.C.2. (4) £135,000.

**BARROW-IN-FURNESS.** (1) 102 dwellings. (2) Margate Street. (3) Corporation Housing Department. (4) £142,516.

**SOUTH WALES.** (1) Large extensions, including annealing furnaces, for Steel Company of Wales, Ltd. (2) Margam, Port Talbot. (3) (Buildings) Braithwaite and Co., Ltd., Birmingham. (Civil engineering) Sir Robert McAlpine and Sons, Ltd., 80, Park Lane, London, W.1.

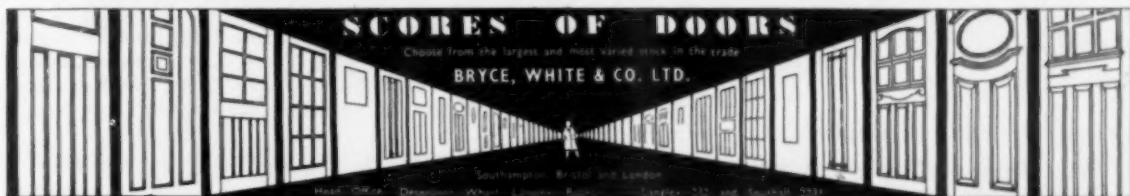
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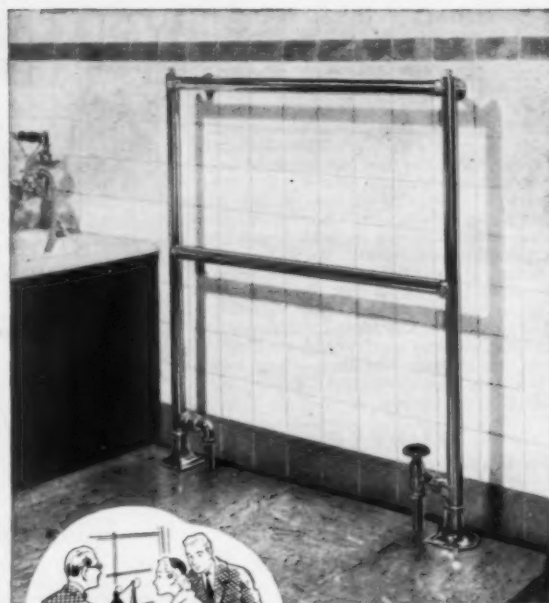
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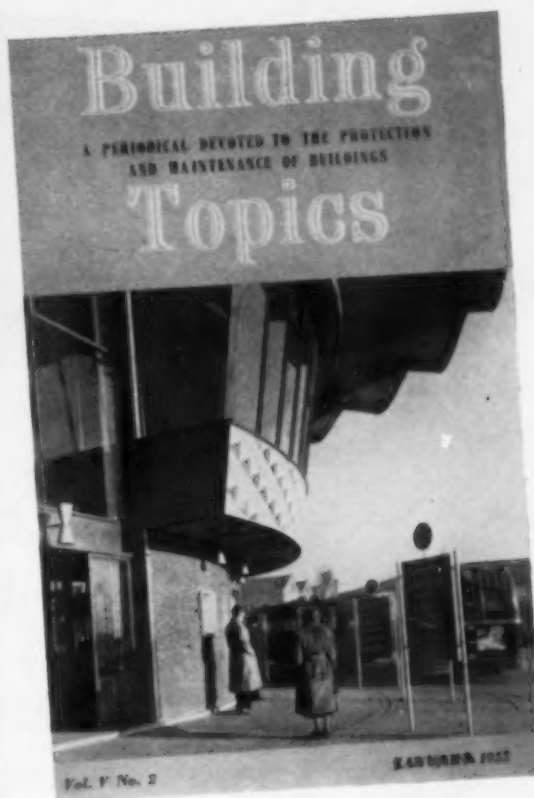
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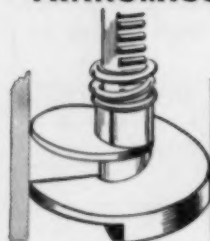
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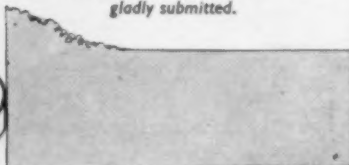
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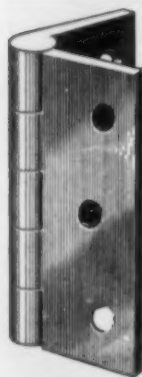
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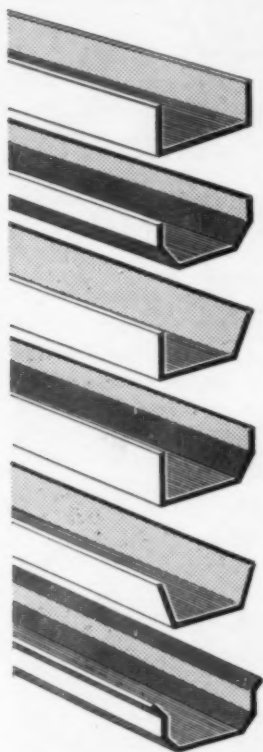
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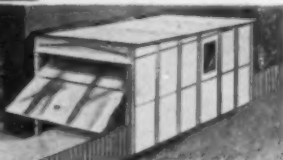
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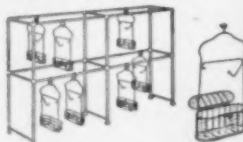
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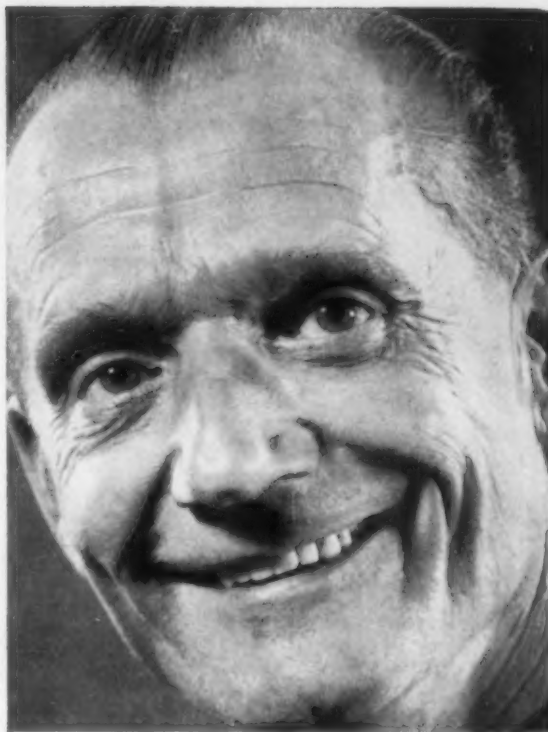
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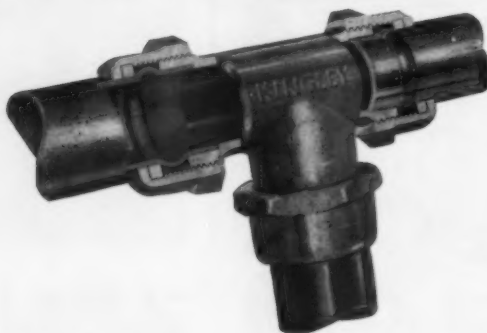
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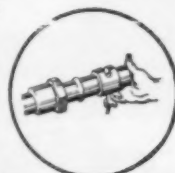
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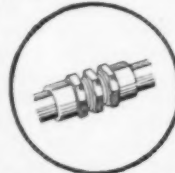
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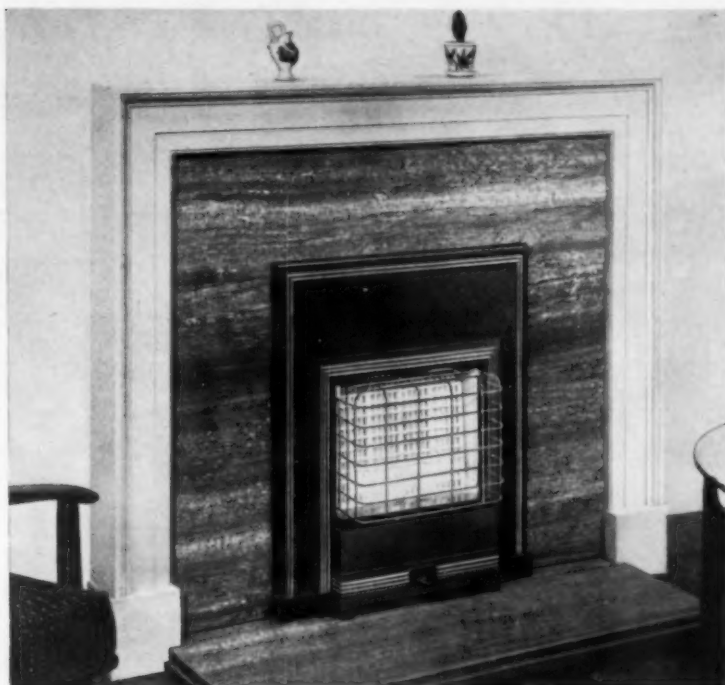
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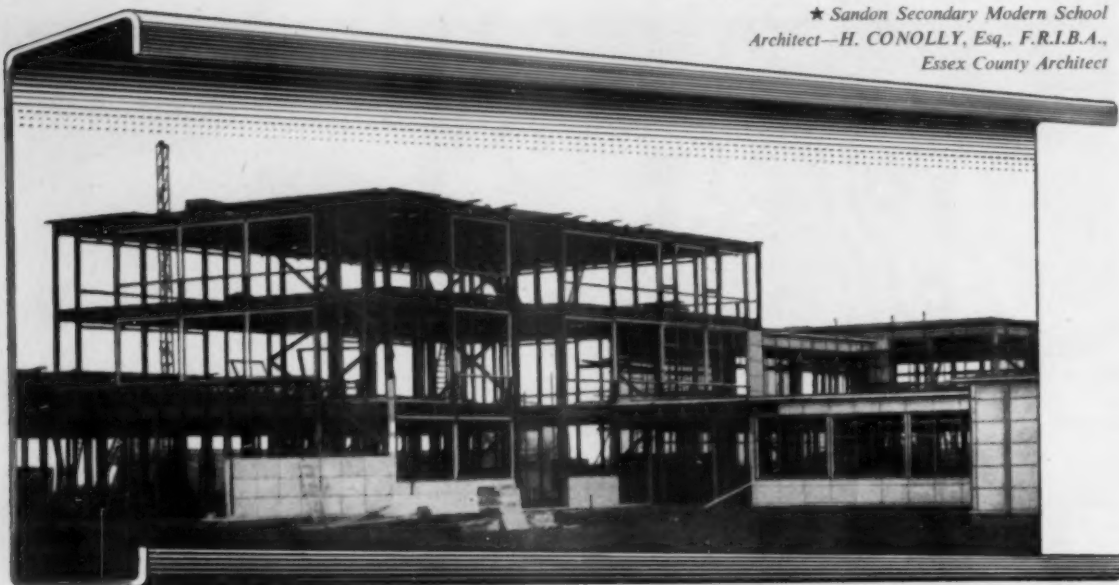
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 Architect—H. CONOLLY, Esq., F.R.I.B.A.,  
 Essex County Architect



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# OFFICIAL ANNOUNCEMENTS

## • APPOINTMENTS • CONTRACTS • TENDERS

Rate 1/6 per line, minimum 3/-

Close for press 1st post Monday for following Thursday Issue

**APPOINTMENTS**

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order, 1952.

**AYCLIFFE DEVELOPMENT CORPORATION.****ASSISTANT ARCHITECT: GRADE IV-V.**

APPLICATIONS are invited for the appointment of ASSISTANT ARCHITECT (Grade A.P.T. IV £675-£825, or Grade A.P.T. V £750-£900, according to ability and experience).

Applicants should be associate members of the R.I.B.A., and have had at least three years' varied experience.

Appointments subject to N.J.C. Conditions, Superannuation and medical examination.

Housing accommodation if necessary.

Applications, together with names of two referees, to arrive not later than 11th May, 1955.

A. V. WILLIAMS,

General Manager.

Newton Aycliffe,

Co. Durham.

[9053]

**LAGOS EXECUTIVE DEVELOPMENT BOARD—NIGERIA****SENIOR ARCHITECT £1,700-£1,800 per annum.**

1. Applications are invited for the above appointment.

2. The Board is responsible for large-scale planning control, outline and detail planning and construction for both new development and redevelopment for industrial, residential and commercial purposes in Lagos. These responsibilities follow very similar lines to those of a Development Corporation operating under the New Towns Act, 1946.

3. Candidates must preferably have experience in large-scale housing development and be Associate Members of the Royal Institute of British Architects.

4. Conditions of appointment are as follows: Appointment is for one tour of 18 to 24 months in the first instance, renewable by mutual agreement. The Board operates a Provident Fund to which the officer contributes 10 per cent of his salary. Leave is granted at the rate of seven days on full pay for each month resident in Lagos. Free first-class air passages are provided for the officer and his wife and assisted passages (maximum £75 per child) for up to two children, or separation allowance of £75 per annum per child in lieu thereof. Partly furnished quarters are provided for which a rent of 10 per cent (maximum £150 per annum) of the officer's basic salary is charged.

5. Application forms obtainable from The Nigeria Office, 5, Buckingham Gate, London, S.W.1. Completed forms in duplicate returnable to the Nigeria Office not later than May 30th. Mark correspondence L.E.D.B. [9953]

**COUNTY BOROUGH OF CROYDON.****EDUCATION DEPARTMENT.**

APPLICATIONS are invited for the following appointments in the School Architect's Section (School Architect, C. T. Ayerst, A.R.I.B.A.).

1. SENIOR ASSISTANT ARCHITECT. Salary £675 x £830-£825 p.a., plus "London Weighting." Must be a member of the R.I.B.A. with considerable experience in preparing sketch plans and working drawings.

2. JUNIOR ARCHITECTURAL ASSISTANT. Salary £500 x £20-£580 p.a., plus "London Weighting."

Application forms from the Chief Education Officer, Katharine Street, Croydon.

Closing date May 11, 1955.

No living accommodation is offered.

E. TABERNER, Town Clerk.

[9944]

**APPOINTMENTS—contd.****BOROUGH OF WORTHING.****ASSISTANT ARCHITECTS.**

APPLICATIONS are invited for the appointment of two ASSISTANT ARCHITECTS in the Architectural Section of the Borough Engineer's Department at a salary in accordance with the special scale for architectural staff, i.e., £650 x £25 to £775 per annum. Candidates must have passed the Final Examination of the R.I.B.A. or its equivalent at a recognized school of architecture and must have had at least five years' experience, including the period spent on theoretical training. Experience in design and in the preparation of working drawings for work carried out by Local Authorities, including school buildings, will be an advantage.

The Council will assist in finding housing accommodation for the successful applicants, if required.

The appointments will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the provisions of the Local Government Superannuation Acts, and to the successful candidates passing satisfactorily a medical examination. The appointments will be terminable by one month's notice on either side.

Applications, endorsed "Assistant Architect," stating age, qualifications, experience, present and past appointments, with dates, and accompanied by copies of two recent testimonials, should be sent to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than Tuesday, 10th May, 1955.

ERNEST G. TOWNSEND,

Town Clerk.

Town Hall,

Worthing.

18th April, 1955.

[9051]

**KENT COUNTY COUNCIL.**

APPLICATIONS are invited for the following appointments in the Buildings Department:—

(1) ASSISTANT ARCHITECT. Salary within scale £675 to £825.

(2) ARCHITECTURAL ASSISTANT. Salary within scale £650 to £775.

Candidates must have had experience in the design and construction of modern buildings. Those for (1) must be Associates of the Royal Institute of British Architects, and for (2) have passed Parts I and II of the Final Examination of the Institute.

Particulars and forms of application from County Architect, Springfield, Maidstone. Closing date 13th May, 1955. [9146]

BRITISH Contractor requires for rapidly expanding building branch in Middle East the following:—

1. Agent to take charge of new building contracts. Should be under 40 years old with previous first-class experience.

2. Junior Engineer or Building Surveyor to assist on existing contracts. Should be 25-30 years old and preferably single.

Applicants for both posts must be fully conversant with all British building practice. Prospects for advancement are really excellent, good leave pay and outfit allowances paid. Only candidates with exceptional enterprise and initiative will be chosen.—Apply Box 3673, c/o A. & B. N. [9962]

**COUNTY BOROUGH OF EAST HAM.**

JUNIOR ASSISTANT PLANNING OFFICER.  
GRADE I—£500-£580.

LONDON Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

A subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms, returnable by May 20, 1955, from the Town Clerk, Town Hall, East Ham, E.6. [9971]

**APPOINTMENTS—contd.****WORCESTERSHIRE COUNTY COUNCIL.****COUNTY ARCHITECT'S DEPARTMENT.**

APPLICATIONS are invited for the post of ASSISTANT ARCHITECT, Grade A.P.T. III (£600-£725) or Special Grade (£650-£775), according to qualifications and experience; preferably with some experience of schools.

Application forms and further particulars may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle St., Worcester, not later than May 13, 1955. (X.136.) [9940]

**OFFICE OF THE RECEIVER FOR THE METROPOLITAN POLICE DISTRICT.**

APPLICATIONS are invited for unestablished appointments as Architectural Assistants (New Works and Maintenance Branches) and also as Sanitary Engineering Assistants in the Chief Architect and Surveyor's Department.

Rates of Pay £442 10s (age 21) by annual increases to £695 (men) and £442 10s by annual increases to £615 (women). Overtime of approximately £24 per annum is also payable while a 45-hour week is worked.

Conditioned hours 44 per week. Annual Leave 24 days.

Application forms from the Chief Clerk, Architect and Surveyor's Department, New Scotland Yard, S.W.1, stating for which drawing office application is made. [9958]

**COUNTY BOROUGH OF EAST HAM.**

TEMPORARY BUILDING INSPECTOR.  
GRADE II—£560-£640.

LONDON Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

A subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms, returnable by May 20, 1955, from the Town Clerk, Town Hall, East Ham, E.6. [9972]

**LONDON COUNTY COUNCIL.****ARCHITECT'S DEPARTMENT.**

VACANCIES for ARCHITECTS, Grade III (up to £892 10s), and ARCHITECTURAL ASSISTANTS (up to £739 10s), in Schools and Housing and General Divisions.

Particulars and application forms from Architect (AR/EK/A/3), County Hall, S.E.1. (1058.) [9146]

**HORNCHURCH URBAN DISTRICT COUNCIL.**

APPLICATIONS are invited for posts of Architectural Assistant.

(a) Grade IV—£675-£825—Temporary.

(b) Grade III—£600-£725.

Applicants for post (a) must be Associates of the R.I.B.A. with considerable experience, and preference will be given to candidates who have served with a Local Authority and been engaged on work in connection with town redevelopment schemes.

Applicants for post (b) should have completed professional training and have passed the Intermediate examination of the R.I.B.A. and had at least 5 years previous experience, preferably with a Local Authority.

Applications, on forms obtainable from the undersigned, must reach me not later than Saturday, May 21st, 1955, in envelopes appropriately endorsed.

F. L. COX,  
Clerk of the Council.

Council Offices,  
Billet Lane,  
Hornchurch  
April 28th, 1955.

[9982]



## TENDERS

## BOROUGH OF GRAVESSEND.

## RENEWAL OF LANTERN LIGHTS AT THE CENTRAL LIBRARY, GRAVESSEND.

TENDERS are invited for the renewal of No. 6 large Lantern Lights comprising the supplying and fixing of lead sheathed glazing bars and glazing at the Central Library.

Copies of the Specification and Conditions of Contract may be obtained from the Borough Engineer & Surveyor, 6, Woodville Terrace, Gravesend.

Tenders in plain, sealed envelopes, endorsed "Tender for Renewal of Lantern Lights at Central Library" and bearing no name or mark indicating the sender, are to be received by the undersigned not later than Saturday, May 21, 1955.

The Council does not bind itself to accept the lowest or any tender.

F. W. HARRISON,  
Town Clerk.

4, Woodville Terrace,  
Gravesend.  
April, 1955.

[9139]

## COUNTY BOROUGH OF BRIGHTON.

## TENDERS are invited for:

Erection of 14 flats at junction of Carden Hill and Woodbourne Avenue, Hollingbury.

Bills of Quantities and forms of tender may be obtained from the Borough Engineer & Surveyor, 26/30, Kings Road, Brighton, on or after May 9th on receipt of a returnable deposit of £2 2s.

Tenders are to be delivered to the Town Clerk in plain sealed envelopes not later than 12 noon, Wednesday, June 1st, 1955.

W. O. DODD,  
Town Clerk.  
[9961]

## URBAN DISTRICT COUNCIL OF NORTHFLEET.

## TENDER FOR HOUSES.

TENDERS are invited for the erection of 60 houses (traditional brick construction) on the Painters Ash Estate, Northfleet.

The Conditions of Contract will be those of the R.I.B.A., which can be seen at the Council Offices, Northfleet, at any time during normal office hours.

Bills of Quantities and Form of Tender can be obtained from the Engineer and Surveyor at the address below on and after May 5 on payment of a deposit of two guineas, which will be returned on receipt of a bona fide Tender which is not subsequently withdrawn.

Tenders in plain sealed envelopes, endorsed "Tender for Houses" and bearing no name or mark indicating the sender, must reach the undersigned not later than 12 noon on Thursday, May 26, 1955. The priced Bills of Quantities should be enclosed in a separate sealed envelope.

The Council do not bind themselves to accept the lowest or any Tender.

W. G. FUTCHER,  
Clerk of the Council.

Council Offices,  
Northfleet,  
Kent.  
April, 1955.

[9949]

## AUCTION SALES

By Order of the Executors of the late Sir Frederick Richmond, Bart.

## WITH VACANT POSSESSION OF THE GREATER PART.

## ST. LEONARDS-ON-SEA, SUSSEX.

In the County Borough of Hastings, on high ground within easy reach of the sea.

## THE WISHING OAK ESTATE.

about 308 ACRES, including VALUABLE BUILDING and ACCOMMODATION LAND WITH LONG ROAD FRONTAGES, TILEKILN FARM, 117 ACRES (mainly let), CHURCH AND DOGKRENNEL WOODS, 122 ACRES, TWO COTTAGES (let).

Auction at Castle Hotel, Hastings on June 7 at 3 p.m. in numerous Lots.

Solicitors:—Messrs. A. G. Roberts & Moore, Mold, Flintshire. (Mold 73.)

Auctioneers:—Messrs. JOHN BRAY & SONS, 11, Warrior Square, St. Leonards-on-Sea (Hastings 312/3); and Messrs. KNIGHT, FRANK & RUTLEY, 20, Hanover Square, London, W.1 (Mayfair 3771).

[9966]

## By Order of Executors.

REDHILL.—Sale by tender of entire valuable stock of BUILDERS' MATERIALS & EQUIPMENT at 1, Pengates Road. Offers invited for individual lots. On view Wed. and Sat. mornings till May 21. Catalogues of Watkin & Watkin, Reigate. (Tel. 2330.)

[9970]

## MISCELLANEOUS SECTION

RATE: 1/6d. per line, minimum 3/-, average line 6 words. Each paragraph charged separately.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o, "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

PRESS DAY Monday. Remittances payable to Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors.

## ARCHITECTURAL APPOINTMENTS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order, 1952.

H. NEWSUM SONS & Co., Ltd., of Lincoln, have the following vacancy in their Housing Department:—

ARCHITECTURAL ASSISTANT, preferably A about Intermediate standard. Previous experience in prefabrication or timber housing desirable but not necessary. It is essential to have a contemporary outlook on the design of buildings and a keen interest in prefabrication. Salary commensurate with age and experience.—Apply in writing, giving details of past experience, age, etc., to the Housing Director. [9969]

ARCHITECTURAL Assistants required, London office. State experience and salary required.—Box 3582, c/o A. & B.N. [9939]

GOODAY & NOBLE require an Assistant of Intermediate to Final standard.—Apply in writing, stating salary required to 2, Cadogan Place, S.W.1. [9977]

LONDON firm has vacancy for experienced group leader. Salary £1,200 p.a.—Write in confidence, with full particulars of career, to Box 3583, c/o A. & B.N. [9941]

ADAMS, HOLDEN & PEARSON require senior architectural assistants immediately.—Write giving particulars of experience and salary required to 38, Gordon Square, W.C.1. [9963]

ASSISTANT required for general practice in Woking office. Inter. or Final standard, office experience essential.—Particulars to A. Whitburn, 12, Broadway, Woking 810. [9975]

WESTWOOD, SONS & HARRISON, F./R.I.B.A., require senior and junior architectural assistants with office experience.—Apply in writing to 46, Baker St., W.1. [0071]

ARCHITECTURAL Assistant required immediately. Exeter office with varied practice. Intermediate to Final standard. Full details.—Box 3690, c/o A. & B.N. [9979]

ARCHITECT'S Assistants required (1 senior and 2 juniors) for West End office.—Write stating full particulars and salary required to Box 2085, c/o A. & B.N. [8819]

ARCHITECTURAL Assistants required with office experience, preferably industrial or schools, salary by arrangement.—Llewellyn Smith & Waters, 103, Old Brompton Road, S.W.7. [9089]

LANCHESTER & LODGE urgently need an Assistant to work on site of University projects in Leeds. Salary up to £700.—Write full particulars, 10, Woburn Sq., W.C.1. [9947]

LANCHESTER & LODGE urgently need Architectural Assistants of all grades up to £700. Five-day week, luncheon vouchers.—Write full particulars, 10, Woburn Sq., W.C.1. [9946]

JUNIOR and intermediate architectural assistants required urgently in London office with widely varied practice; good salaries; 5-day week.—Lewis Solomon, Son & Joseph, Hol. 5108 or 7082. [9938]

ARCHITECTURAL Assistant required urgently. R.I.B.A. intermediate standard. Interesting varied work Hampton area.—Write, stating age, experience, salary required, Box 3544, c/o A. & B.N. [9155]

ARCHITECTURAL Assistants required in Carlisle and Cockermouth offices.—Apply stating age, qualifications, salary required, with names of referees, Graham & Roy, 6, Paternoster Row, Carlisle. [9124]

SENIOR and Intermediate Architectural Assistants required, 5-day week. Write or telephone, giving full particulars, including age and salary, to Hasler & Hall, Architects, 13, Welbeck Street, W.1. (Welbeck 0061.) [0067]

## ARCHITECTURAL APPOINTMENTS VACANT—contd.

ASSISTANT Surveyors, experienced in the preparation of detailed drawings and surveys, required by Davis Estate, Ltd. 346-350, High Road, London, N.W.6. Apply giving details of past employment and salary required. [9131]

GOLLINS, MELVIN, WARD & PARTNERS, 15, Manchester Sq., W.1, require junior staff, competent working drawings essential, opportunity to work on contemporary buildings.—Write or telephone, Welbeck 9991. [9942]

ARCHITECT'S Co-Partnership require assistant for working drawings and detailed design; salary according to experience; qualified assistant also required; office doing work in U.K. and West Africa.—Tel. Langham 5791, or write 44, Charlotte St., W.1. [9948]

ARCHITECTURAL ASSISTANTS with considerable experience required for general practice, good salary paid to suitable applicants. Reply, stating age and experience, to Thomas Worthington & Sons, 178, Oxford Rd., Manchester, 13. [9066]

SENIOR and Junior Architectural Assistants required for busy general practice; commencing salaries £500 to £750 p.a., according to experience and qualifications.—Apply H. N. Jepson & Partners, Chartered Architects, Midland Bank Chambers, Nuneaton. [9951]

F. W. WOOLWORTH & Co., Ltd.—Architect's Assistant required in Chief Architect's office, London.—Write, giving details of experience and salary required, to H. Winbourne, F.R.I.B.A., Chief Architect, F. W. Woolworth & Co., Ltd., 1/5, New Bond Street, London, W.1. [9967]

SENIOR and Junior Architectural Assistants required for general and commercial practice.—Apply stating age, experience, qualifications and salary required to Duncan Clark & Co., F.R.I.B.A., F./R.I.B.A., Architects & Surveyors, 7, West Stockwell Street, Colchester. [9132]

THREE architectural assistants required for work on contemporary industrial buildings; one of Final and two of Intermediate R.I.B.A. standard; good salaries and plenty of opportunity for initiative; London office.—Write giving details of salary, experience to Box 3260, c/o A. & B.N. [9070]

ARCHITECTURAL draughtsman with shop-fitting knowledge required in the property department, able to prepare own survey plans, interior schemes and working drawings under supervision.—Apply in writing, stating age and salary, to Property Manager, Lilley & Skinner, Ltd., 192, Pentonville Rd., N.1. [9123]

ARCHITECTURAL assistant required for property department of multiple shoe company, having experience in taking own surveys, preparing working drawings and designing shop-fronts and interior schemes.—Apply in writing, stating age and salary to Property Manager, Lilley & Skinner, Ltd., 192, Pentonville Rd., N.1. [9122]

ABBEY & HANSON, of 11, Cloth Hall Street, Huddersfield, and 11, Wyle Cop, Shrewsbury, require Senior and Junior Assistants. Interesting contemporary design in this country and abroad. Good salary and prospects.—Apply to Huddersfield Office (telephone 225) giving experience and salary required. [9954]

ARCHITECTURAL assistants required immediately for busy Birmingham practice. A.R.I.B.A. and/or intermediate qualifications, salary scale £500-£750, according to experience, etc.—Write giving full particulars and when available to Wood & Kendrick & Williams, 57, Colmore Row, Birmingham, 3. [9138]

TWO Architectural Assistants required for busy practice engaged upon a large programme for schools, industrial buildings, offices, etc. Salaries up to £750 and £520 respectively according to qualifications and experience. Five-day week. Write, giving full particulars, to Johns, Slater & Haward, F./A.R.I.B.A., 32, Foundation St., Ipswich. [9059]

DEVON architect requires assistant of R.I.B.A. Intermediate or Final standard for small busy office, varied and interesting work with plenty of scope for someone with enthusiasm; starting salary will depend on previous experience and will be raised according to capability.—Anton Lamb, A.R.I.B.A., A.M.T.P.I., Architect, 2, Prospect Place, Ottery St. Mary, Devon. [9964]

JUNIOR ARCHITECTURAL DRAUGHTSMAN required to assist in preparation sketch and working drawings for development of Service Stations and similar work. Good working conditions and canteen facilities. Pensionable position on regular staff.—Replies should be addressed to Employee Relations Manager, Esso Petroleum Co., Ltd., Little Aston Hall, Sutton Coldfield, Birmingham. [9956]

IMPERIAL CHEMICAL INDUSTRIES, Ltd., has a vacancy in its London offices for a Senior Assistant Architect; candidates must be members of the R.I.B.A. and be capable of taking charge of a group of architects; they must have had experience in the design and construction of offices, laboratories, warehouses and industrial buildings.—Applications, stating age, present position and salary, should be forwarded to Head Office & Regions Staff Department (GDC), Imperial Chemical Industries, Limited, I.C. House, Millbank, S.W.1. [9950]



## ARCHITECTURAL APPOINTMENTS VACANT—contd.

**SAMUEL MORRISON & PARTNERS** require the following:

- Several Architects to undertake research and assume responsibility for the design and erection of contemporary schools.
  - Several Architects to carry out similar work in the sphere of housing, shopping centres, etc.
  - Assistants of Intermediate or Final standard to collaborate with the above.
  - An assistant who is interested in the preparation of articles and typography, in addition to normal architectural work.
- Salaries comparable to Local Authority Scales; interview expenses paid.—St. Aikmunds House, 103, Belper Road, Derby. [9133]

## SITUATIONS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of the Notification of Vacancies Order, 1952.

### IMPERIAL CHEMICAL INDUSTRIES, LIMITED

**WILTON WORKS,** has vacancies for ASSISTANT TECHNICAL OFFICERS DRAUGHTSMEN in categories

MECHANICAL CIVIL ELECTRICAL STRUCTURAL

**INSTRUMENTATION ARCHITECTURAL** for permanent staff appointments for design and further development of their new factory at Wilton Works, Cleveland, Yorkshire. Higher National Certificate, or equivalent, is an essential qualification unless experience is exceptional.

5-day week. Recreation Club. Staff Pension and Profit Sharing Schemes.

Housing assistance possible in approved cases.—Write for application for employment form to Staff Officer, Imperial Chemical Industries, Limited, Wilton Works, Middlesbrough, quoting advertisement reference ICI/X/228/c. [9945]

**DAVIS, BELFIELD & EVEREST** require experienced Taker Off for London office.—Write, giving age and full details of experience, to 9, Ashley Place, S.W.1. [9974]

**JUNIOR** required for general office duties in quantity surveyors' office; good prospects.—Write to Sydney C. Gordon, Finsbury House, Blomfield St., London, E.C.2. [9075]

**ASSISTANT** required in busy practice in West End, in early '20s, about intermediate R.I.B.A. standard; excellent opportunities of gaining all-round experience.—Box 0672, c/o A. & B.N. [0636]

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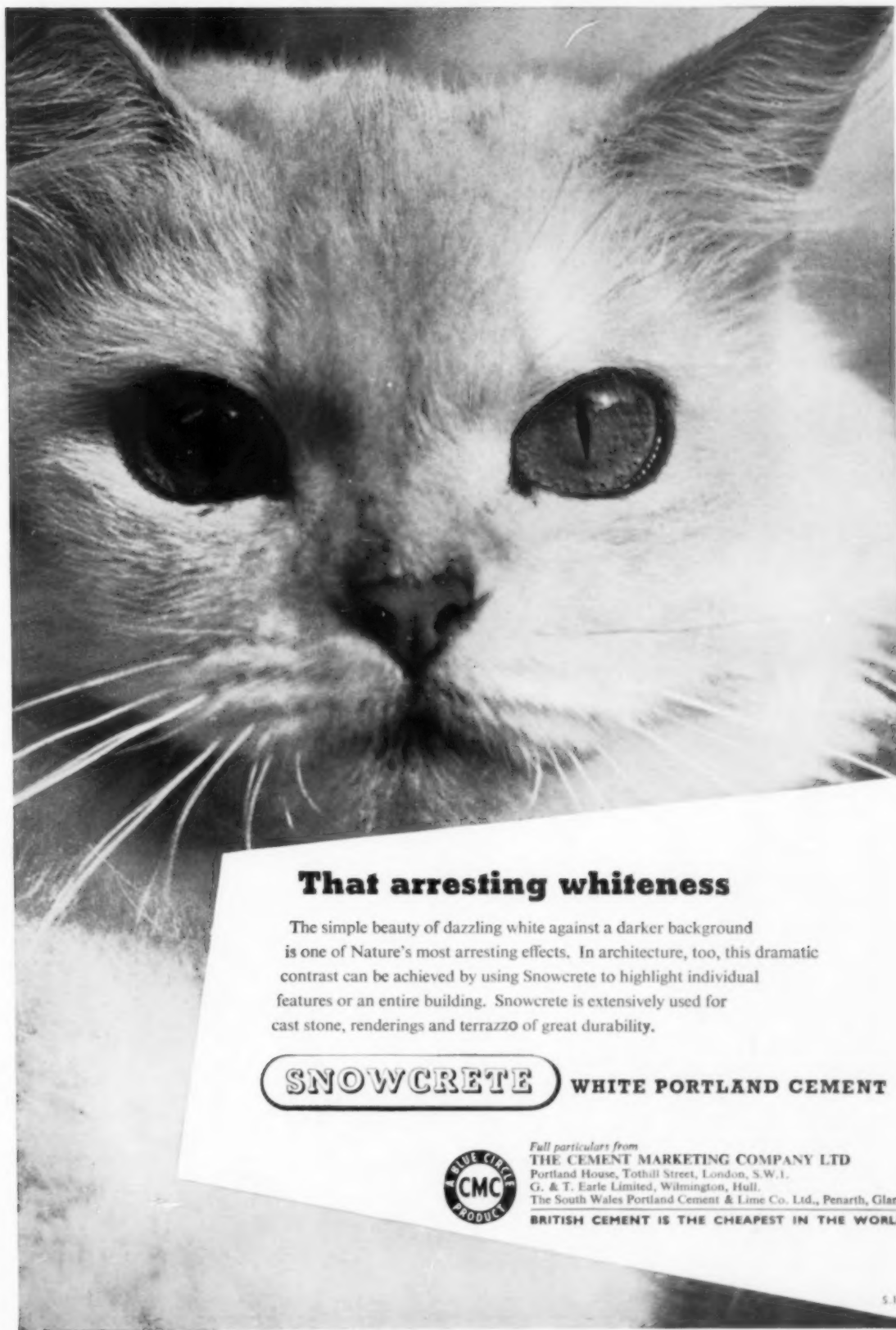
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# INDEX TO ADVERTISERS

Official Notices, Tenders, Auctions, Legal and Miscellaneous Appointments on pages 47, 48 and 49

A.I. Welding Service	—	Clement Bros., Haslemere, Ltd.	—	Honeywell-Brown Ltd.	—	Reynolds, H. & L., Ltd.	—
A.B.C.D. (Raynes Park) Ltd.	—	Cloakroom Equipment Ltd.	—	Hope, Henry, & Sons Ltd.	25	Richardson & Steadings Ltd.	31
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Adam & Lane & Neeve Ltd.	13	Colas Products (Sales) Ltd.	40	Hotchicks Engineers Ltd.	—	Roller Shutters Ltd.	—
Adams Ltd.	49	Colthart Symons & Co. Ltd.	—	Hoover Ltd.	—	Rolyat Tank Co. Ltd.	—
Adams Hydraulics Ltd.	38	Compactum Ltd.	—	Humber State Co. Ltd.	—	Ronuk Ltd.	—
Adams, Robert (Victor), Ltd.	—	Condorp Ltd.	—	Hunter, Douglas, Holland	—	Rose Salisbury & Co. Ltd.	—
Aerialite Ltd.	—	Conex-Terna Ltd.	—	(Luxaflex)	8	Rubber Improvements Ltd.	40
Aga Heat Ltd.	—	Cork Manufacturing Co. Ltd.	—	Ibstock Brick & Tile Co. Ltd.	—	Ruberoid Co. Ltd., The	35
Adam Hill, E., & Co. Ltd.	10	Costain, Richard, Ltd.	—	Iliffe & Sons Ltd.	—	Rubery Owen (Shorrock Super-	—
Allied Brick & Tile Works Ltd.	—	Cowite (Asphalts) Ltd.	—	Imperial Chemical Industries	22	chargers) Ltd.	—
Allied Guilds	—	Cowlin, W., & Sons Ltd.	—	Ltd.	—	Rudkin, S. O., & Co., Ltd.	31
Allied Ironfounders Ltd.	—	Coxens Ventilators Ltd.	32	Johnson Bros. Ltd.	—	Runnymede Rubber Co., Ltd.	—
Ames Crosta Mills & Co. Ltd.	—	Crittall Manufacturing Co., Ltd.	—	Jones & Broadbent	—	Sanders, Wm., & Co. (Wednes-	—
Anderson, C. F. & Son, Ltd.	39	The	—	Jones, T. C., & Co. Ltd.	15	bury) Ltd.	—
Armstrong Cork Co. Ltd.	—	Crossman, W., & Sons	—	Kay & Co. (Engineers) Ltd.	—	Sankey, J. H., & Sons Ltd.	—
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Associated Fire Alarms Ltd.	—	Cutting, R. C.	—	Kings, Roy, (Builders) Ltd.	—	Sherwood Floors, Ltd.	18
Atlas Preservative Co. Ltd.	—	Dalton, Ballard & Co. Ltd.	—	Kings Langley Eng. Co. Ltd.	44	Shutter Contractors Ltd.	—
Atlas Stone Co. Ltd.	—	Dennison Kett & Co. Ltd.	—	Kinnear Shutters	31	Seiber, J., Equipment Co.	42
Austins of East Ham Ltd.	12	Denton Edwards Paint Ltd.	37	Lacrinoid Products Ltd.	—	Siegevert Floor Co. Ltd.	—
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Batley, E., Ltd.	42	Durasteel Ltd.	—	Libraco Ltd.	—	Smiths Fireproof Floors Ltd.	—
Baume & Co., Ltd.	35	Duresco Products Ltd.	—	Light Steelwork (1925) Ltd.	—	Sommerfelds Ltd.	—
Bawn, W. B., & Co., Ltd.	—	Dussek, Bitumen & Taroleum	2	Lindsay's Paddington Iron	—	Soundproof Construction	33
Basendale & Co. Ltd.	—	Ltd.	—	Works (1948) Ltd.	33	Southern Forge Ltd.	—
Benham & Sons Ltd.	—	Dussek Bros. & Co. Ltd.	—	Lister, R. A., & Co. Ltd.	42	Spartan Beams Ltd.	—
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Ltd.	—	Electrolux (Model M.151)	—	Macartney Ltd.	—	Steel Radiators Ltd.	—
Blackwell Wyckham Ltd.	—	Elliott, Samuel, & Son (Read-	44	Maple & Co. Ltd.	33	Selcon (Industrial Floors) Ltd.	14
Black Cabinet & Metal Works	—	ing) Ltd.	—	Margolis, M.	31	Stevens, A. & P., Ltd.	—
Ltd., The	—	Ellis, J., & Sons Ltd.	—	Margolis, S.	—	Stic B Paints Sales Ltd.	—
Blundell-Spence & Co., Ltd.	—	Empire Stone Co. Ltd.	31	Marley Tile Co. Ltd., The	—	Sullite Products Ltd.	—
Bolton Gate Co. Ltd.	—	Engert & Rolfe Ltd.	31	Marryst & Scott Ltd.	—	Stramit Boards Ltd.	—
Boetwick Gate & Shutter Co.,	—	En-Tout-Cas Co. Ltd.	—	Masonite Ltd.	—	Stuart's Granolithic Co. Ltd.	36
Ltd.	31	Esavian Doors	—	Mather & Platt Ltd.	—	Sugg, Wm., & Co. Ltd.	—
Bourner, F. H., & Co. (Engineers)	—	Esso Petroleum Co. Ltd.	—	Mathews, H., & Co. Ltd.	—	Sun Insurance Office Ltd.	—
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Box, C. W.	—	Expandite Ltd.	—	Medway Buildings & Supplies	—	Sussex Cement & Concrete	—
Braby, F., & Co. Ltd.	—	Farmer, S. W., & Son Ltd.	28	Merchant Trading Co. Ltd.	—	Products	32
Bradford, F., & Co. Ltd.	—	Fibreglass Ltd.	6	Micklethwaite, W. H., & Co., Ltd.	18	Synchrone Co. Ltd.	—
Brady, G., & Co. Ltd.	—	Finch, B., & Co. Ltd.	9	Minton Hollins Ltd.	—	Tarmac Ltd., Vinculum Dept.	—
Braim-Arc Ltd.	—	Finlock Gutters Ltd.	—	Molter Products Ltd.	—	Taylor Rustless Fittings Co.,	—
Bratt Colburn Ltd.	45	Flavel, S., & Co. Ltd.	—	Molesley Sheet Metal Works	—	Telexflex Products Ltd.	38
Briggs, Wm., & Sons Ltd.	23	Flexo Plywood Industries Ltd.	—	Ltd.	—	Temperature Ltd.	—
Bristol Stone & Concrete Co.	—	Frank, Charles	—	Morris, Herbert, Ltd.	—	Terradura Flooring Co. Ltd.	—
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British Constructional Steel-	—	Freeman, Joseph, Sons & Co.	33	Motor Transport	—	Thompson, John, Beacon Win-	—
work Association	—	Ltd.	—	Mullen & Lumsden Ltd.	32	dows, Ltd.	—
British Ebonite Co. Ltd.	—	French, Thos., & Sons, Ltd.	33	Murex Welding Processes Ltd.	43	Thorn J., & Sons Ltd.	—
British Electrical Dev. Assoc.	—	Gardner, J., & Co. Ltd.	—	Nairn, Michael, & Co. Ltd.	—	Thornthorn, A. G., Ltd.	—
British Electricity	—	Gas Council	24	National Association of Master	—	Thornthorn, William, & Sons Ltd.	—
British Hermes Ltd.	—	Gaskell & Chambers Ltd.	17	Asphalts	—	Thorp, J. B.	—
British Metal Window Manu-	—	General Electric Co. Ltd., The	—	National Coal Board	—	Tietol Ltd.	37
facturing Assoc.	30	Ltd.	—	Neolite Ltd.	—	Trianco Ltd.	—
British Paints Ltd.	34	Gibson, Arthur L., & Co. Ltd.	31	Newday Electrical Accessories	—	Troughton & Young (Lighting)	—
British Plasterboard (Manu-	—	Gimson & Co. (Leicester) Ltd.	—	Ltd.	—	Ltd.	—
facturing) Ltd.	—	Girling Ferro-Concrete Co.,	—	Newman, Wm., & Sons Ltd.	—	True Flue Ltd.	—
British Reinforced Concrete	—	Ltd.	—	Normid Ltd.	38	Trussed Concrete Steel Co. Ltd.	—
Engineering Co. Ltd., The	26	Glikstein, J., & Co. Ltd.	—	Norris, C. W., Ltd.	—	Turner, Chas., & Son Ltd.	—
British Titan Products Co. Ltd.	—	Grange-Cameron Iron Co.	31	Norwood Steel Equipment	—	Turners Asbestos Cement Co.	21
Brookhouse Heaters Co. Ltd.	—	Gray, J. W., & Co. Ltd.	—	(London) Ltd.	—	Ltd.	32
Brookhouse Steel Structures	—	Greenwood's & Airvac Ventila-	—	Nu-Swift Ltd.	—	Unique Balance Co. Ltd.	—
Ltd.	46	ing Co. Ltd.	—	Nu-Way Heating Plants Ltd.	—	United Merchants Ltd.	3
Bryce White & Co. Ltd.	33	Gulf Radiators Ltd.	—	Odini, A. A., & Co. Ltd.	11	United Paint Co. Ltd.	39
Burn Bros (London) Ltd.	—	Gummers Ltd.	—	Orlit Ltd.	—	United Steel Companies Ltd.	—
Burns & Oates	—	G.W.B. Furnaces Ltd.	—	Parsons, Thos., & Sons Ltd.	—	Veitchi Company Ltd., The	33
Cafferata & Co. Ltd.	—	Hale & Hale Ltd.	41	Patent Glazing Conference, The	—	Vulcanite Ltd.	—
Callow & Keppich Ltd.	—	Hall, Harding, Ltd.	—	Penfold Fencing & Engineering	—	Walker Crosswell & Co. Ltd.	—
Callow Rock Lime Co. Ltd.,	—	Hall, J. & E., Ltd.	—	Ltd.	—	Wall Paper Manufacturers Ltd.	—
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Carborundum Ltd.	—	Halstead, James, Ltd.	—	Permanite Ltd.	—	Ward & Co.	—
Cantie Switches Ltd.	—	Hammond & Champness Ltd.	46	Pickering Rubber Co. Ltd.	—	Ward, Thos. W., Ltd.	32
C. & P. Development Ltd.	—	Hangers Paints Ltd.	41	Pickering Bros. Ltd.	—	Wates Ltd.	—
Cape, Asbestos Co. Ltd., The	—	Harvey, G. A., & Co. Ltd.	—	Pillingier, G. C., & Co. Ltd.	—	Weatherfoil Heating Systems	—
Carlisle Plaster & Cement Co.	—	Haskins	—	Pitman, Sir Isaac & Sons Ltd.	—	Ltd.	—
Ltd.	29	Hastheware Ltd.	—	Pickington Tiles Ltd.	—	Welsey Trading Co. Ltd.	—
Celon Ltd.	—	Haywards Ltd.	—	Pollard, E., & Co. Ltd.	—	West, A., & Partners	43
Celotex Ltd.	—	Henley, W. T., Telegraph	—	Potter, F. W., & Sear Ltd.	—	Ltd.	—
Cement Marketing Co. Ltd., L.B.C.	—	Works Co. Ltd.	—	Potter Rax Ltd.	—	Williams & Williams Ltd.	1
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Co. Ltd.	—	Heywood, W. H., & Co. Ltd.	—	Prytenax Ltd.	—	Ltd.	20
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Chilton Steel Ltd.	—	Holland & Hannen and Cubitts	—	Reliable Plywood Co. Ltd.	—	Youngman, W. C., Ltd.	34
Chubb & Son's Lock & Safe	—	Ltd.	—	Reparations-Dreyfus Ltd.	—	Zinc Development Association	—
Co. Ltd.	—	Holophane Ltd.	—				
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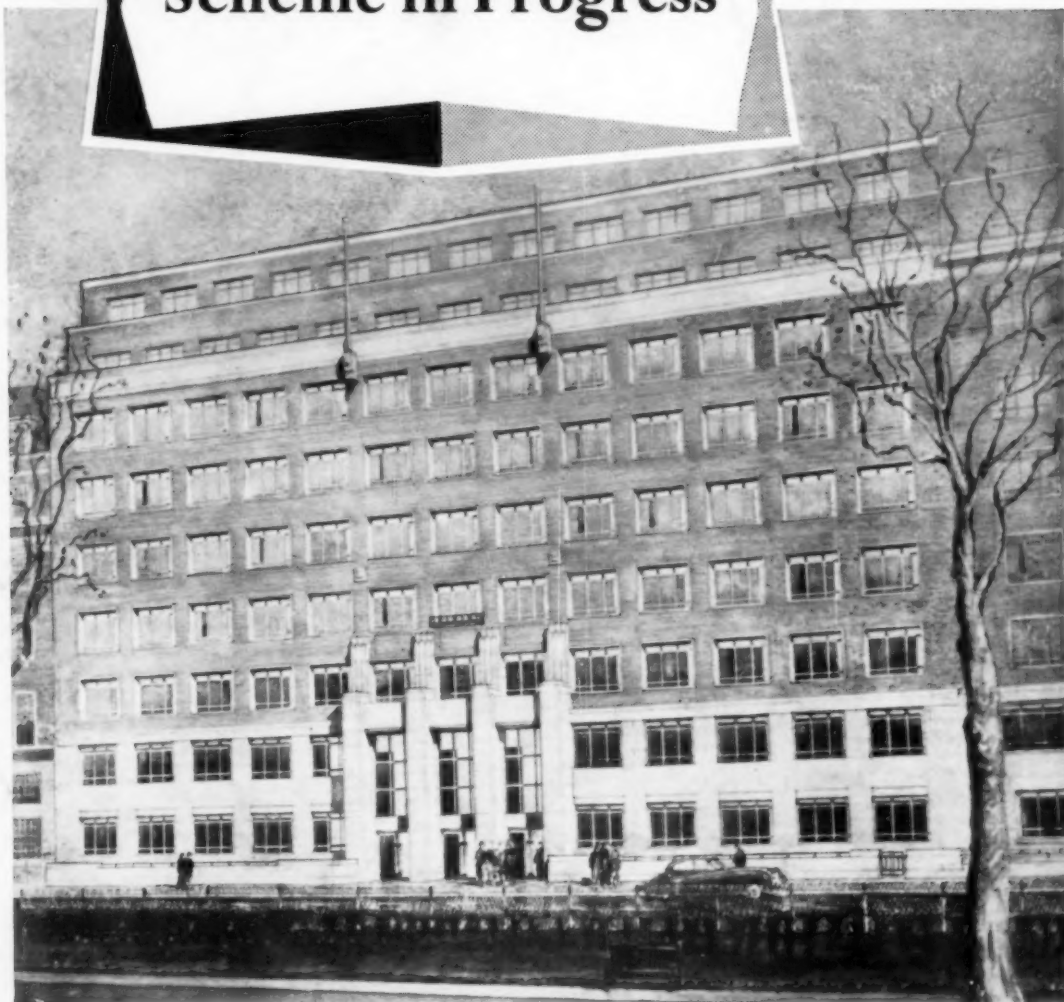
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